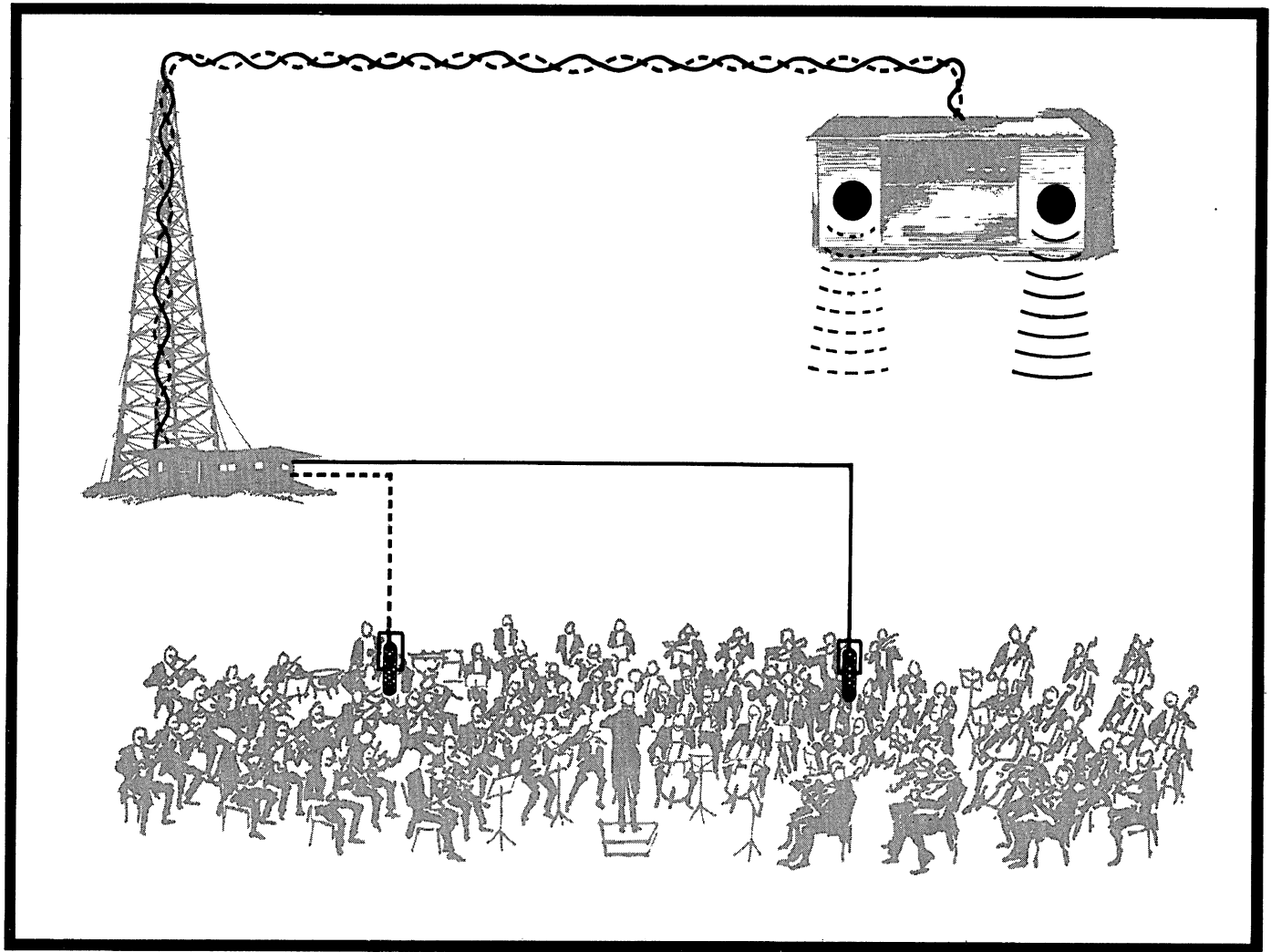


# **ZENITH**

## **SERVICE MANUAL**



### **HIGH FIDELITY AND STEREO FM MODELS**

**ZENITH RADIO CORPORATION**

**1900 N. AUSTIN AVENUE**

**CHICAGO, ILLINOIS 60639**

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# FEATURES OF HIGH FIDELITY & STEREO FM MODELS

MODEL	CABINET				CHASSIS			SPEAKER		
	STYLE	MATERIAL	FINISH	COLOR	MODEL	TYPE	EIA POWER OUTPUT	SIZE (IN.)	MAGNET (WT.OZ)	V.C. IMPEDANCE
ZP2BP	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Blue & White	1L20	1 Tube Phono Only	----	4	.68	3.2
ZP2V	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Red & White	1L20	1 Tube Phono Only	----	4	.68	3.2
NP8L-1	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Beige	1N21	1 Tube Phono Only	----	4	.68	3.2
NP8W-1	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Off White	1N21	1 Tube Phono Only	----	4	.68	3.2
NP8B-1	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Blue	1N21	1 Tube Phono Only	----	4	.68	3.2
NP10J-1	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Walnut Brown & Ivory	2NT20	2 Transistor Phono Only	----	4	.68	3.2
NP10F-1	Table (w/handle) (lift lid)	Plastic	Textured Plastic	Light Olive & Off White	2NT20	2 Transistor Phono Only	----	4	.68	3.2
NPS40G-1	Table (w/handle)	Wood	Durastron Covering	Amy & Blue Pinseal Metallic	4NT20	4 Transistor Phono Only	----	2-4 x 6	1.0	3.2
NPS40L-1	Table (w/handle)	Wood	Durastron Covering	Scandia & Black	4NT20	4 Transistor Phono Only	----	2-4 x 6	1.0	3.2
NPS45X-1	Table (w/handle) (Latched speaker enclosure)	Wood	Durastron Covering	Pearl Finish, Accent White & Walnut	4NT20	4 Transistor Phono Only	----	2-5 x 7	2.15	3.2
NPS45P-1	Table (w/handle) (latched speaker enclosure)	Wood	Durastron Covering	Metallic Pale Gold & Gray	4NT20	4 Transistor Phono Only	----	2-5 x 7	2.15	3.2
NPSSOL	Table (w/handle) (hinged speaker enclosure)	Fibrit	Textured Paint	Mocha	4NT21	4 Transistor Phono Only	----	2-6 1/2	1.47	3.2
NPSSOW	Table (w/handle) (hinged speaker enclosures)	Fibrit	Textured Paint	Antique White	4NT21	4 Transistor Phono Only	----	2-6 1/2	1.47	3.2
MPS90W1	Table (w/handle) (hinged speaker enclosure)	Wood	Plastic Coated Cloth	Walnut	Waters Conley	10 Transistors Phono Only	----	2-8 2-4 2-3 1/2	4.8 1.47	8 6.4

# FEATURES OF HIGH FIDELITY & STEREO FM MODELS

SPEAKER NO.	RECORD CHANGER (SEE NOTES)				CONTROL PANEL	INDICATOR LIGHT	TYPE OF IDENTIFICATION AND SPECIAL FEATURES	RECORD STORAGE	RADIAL SOUND SPEAKER
	TYPE	MOUNTING	CART. RIDGE	STYLUS					
49-993	Manual Player	Shelf	142-95	Sapphire Sapphire	None	No		None	None
49-993	Manual Player	Shelf	142-95	Sapphire Sapphire	None	No		None	None
349-3	169-279	Shelf	142-156	Sapphire Sapphire	Metal Plate	No		None	None
349-3	169-279	Shelf	142-156	Sapphire Sapphire	Metal Plate	No		None	None
349-3	169-278	Shelf	142-156	Sapphire Sapphire	Metal Plate	No		None	None
349-3	169-284	Shelf	142-149	Sapphire Sapphire	Metal Plate	No	3	None	None
349-3	169-284	Shelf	142-149	Sapphire Sapphire	Metal Plate	No	3	None	None
49-926	169-273	Hinged Panel	142-148	Sapphire Sapphire	Hot Stamped on Cabinet	No	4	None	None
49-926	169-274	Hinged Panel	142-148	Sapphire Sapphire	Hot Stamped on Cabinet	No	4	None	None
49-1077	169-261	Hinged Panel	142-148	Sapphire Sapphire	Metal Plate	No	4	None	None
49-1077	169-275	Hinged Panel	142-148	Sapphire Sapphire	Metal Plate	No	4	None	None
49-1084	169-270	Hinged Panel	142-142	Sapphire Sapphire	Metal Plate	No	4	None	None
49-1084	169-269	Hinged Panel	142-142	Sapphire Sapphire	Metal Plate	No	4	None	None
964-18016 964-13857 964-16237	169-263	Shelf	142-151	Diamond Sapphire	Metal Plate	No	6	None	None

# FEATURES OF HIGH FIDELITY & STEREO FM MODELS

MODEL NO.	CABINET				CHASSIS			SPEAKER		
	STYLE	MATERIAL	FINISH	COLOR	MODEL	TYPE	EIA POWER OUTPUT	SIZE (IN.)	MAGNET (WT.OZ.)	V.C. IMPEDANCE
LPM95W4	Table (w/handle) (hinged speaker enclosure)	Wood	Plastic Coated Cloth	Walnut & Beige	10L02Z	Phono-AM-FM	5W.	2-3 1/2 2-8	.46 4.8	45. 6.4
RT1960W	Console (lift lid)	Wood	Wood	Walnut	8NT02 6L01Z2 or 6L01Z6	Phono-AM-FM	8W.	4-3 1/2 2-6 x 9	.46 3.16	45. 16
MT1960W	Console (lift lid)	Wood	Wood	Walnut	8NT02 7L01Z2 or 7L01Z6	Phono-AM-FM	8W.	4-3 1/2 2-6 x 9	.46 3.16	45. 16
SN2410W	Console (sliding panels)	Wood	Wood	Walnut	3L04	Phono Only	5W.	2-3 1/2 2-6 x 9	.46 3.16	45. 6.4
RN2410W	Console (sliding panels)	Wood	Wood	Walnut	3L02 6L01 or 6L01Z3	Phono-AM-FM	5W.	2-3 1/2 2-6 x 9	.46 3.16	45. 6.4
MN2410W	Console (sliding panels)	Wood	Wood	Walnut	3L02 7L01 or 7L01Z3	Phono-AM-FM	5W.	2-3 1/2 2-6 x 9	.46 3.16	45. 6.4
SN2420W	Console (sliding panels)	Wood	Wood	Walnut	8NT04	Phono Only	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
RN2420W	Console (sliding panels)	Wood	Wood	Walnut	8NT02 6L01Z1 or 6L01Z5	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
MN2420W	Console (sliding panels)	Wood	Wood	Walnut	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
SN2425R	Console (sliding panels)	Wood	Wood	Mahogany	8NT04	Phono Only	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
SN2425H	Console (sliding panels)	Wood	Wood	Cherry	8NT04	Phono Only	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
RN2425R	Console (sliding panels)	Wood	Wood	Mahogany	8NT02 6L01Z1 or 6L01Z5	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
RN2425H	Console (sliding panels)	Wood	Wood	Cherry	8NT02 6L01Z1 or 6L01Z5	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
MN2425R	Console (sliding panels)	Wood	Wood	Mahogany	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
MN2425H	Console (sliding panels)	Wood	Wood	Cherry	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
SN2430M	Console (sliding panels)	Wood	Wood	Maple	8NT04	Phono Only	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
RN2430	Console (sliding panels)	Wood	Wood	Maple	8NT02 6L01Z1 or 6L01Z5	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
MN2430M	Console (sliding panels)	Wood	Wood	Maple	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	2-3 1/2 2-6 x 9	.46 3.16	45. 16
RN2601W	Console (lift lid)	Wood	Wood	Walnut	8NT02 6 L01Z1 or 6L01Z5	Phono-AM-FM	8W.	4-3 1/2 2-6 x 9	.46 3.16	45. 16

# FEATURES OF HIGH FIDELITY & STEREO FM MODELS

SPEAKER NO.	RECORD CHANGER (SEE NOTES)				CONTROL PANEL	INDICATOR LIGHT	TYPE OF IDENTIFICATION AND SPECIAL FEATURES	RECORD STORAGE	RADIAL SOUND SPEAKER
	TYPE	MOUNTING	CART-RIDGE	STYLUS					
49-978 49-1009	169-262	Hinged Panel	142-151	Diamond Sapphire	Plastic Escutcheon	No	18	None	None
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	7	Yes	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	†
49-978 49-902	169-264	Shelf	142-137	Diamond Sapphire	Plastic Escutcheon	No	5	No	†
49-978 49-902	169-264	Shelf	142-137	Diamond Sapphire	Plastic Escutcheon	No	19	No	†
49-978 49-902	169-264	Shelf	142-137	Diamond Sapphire	Plastic Escutcheon	No	8	No	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	6	No	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	7	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	6	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	6	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	7	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	7	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	6	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	7	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	7	None	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	None	†

# FEATURES OF HIGH FIDELITY & STEREO FM MODELS

MODEL NO.	CABINET				CHASSIS			SPEAKER		
	STYLE	MATERIAL	FINISH	COLOR	MODEL	TYPE	EIA POWER OUTPUT	SIZE (IN.)	MAGNET (WT.OZ.)	V.C. IMPEDANCE
MN2601W	Console (lift lid)	Wood	Wood	Walnut	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	4-3 1/2 2-6 x 9	.46 3.16	45. 16
RN2602M	Console (lift lid)	Wood	Wood	Maple	8NT02 6L01Z1 or 6L01Z5	Phono-AM-FM	8W.	4-3 1/2 2-6 x 9	.46 3.16	45. 16
MN2602M	Console (lift lid)	Wood	Wood	Maple	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	4-3 1/2 2-6 x 9	.46 3.16	45. 16
MN2603H	Console (lift lid)	Wood	Wood	Cherry	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	4-3 1/2 2-6 x 9	.46 3.16	45. 16
MN2603R	Console (lift lid)	Wood	Wood	Mahogany	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	4-3 1/2 2-6 x 9	.46 3.16	45. 16
MN2604W	Console (lift lid) (Pivotal Louver Doors)	Wood	Wood	Walnut	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	6-3 1/2 2-10	.46 6.8	45. 16
MN2605H	Console (lift lid)	Wood	Wood	Cherry	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	6-3 1/2 2-10	.46 6.8	45. 16
MN2605M	Console (lift lid)	Wood	Wood	Maple	8NT02 7L01Z1 or 7L01Z5	Phono-AM-FM	8W.	6-3 1/2 2-10	.46 6.8	45. 16
MN2606W	Console (lift lid)	Wood	Wood	Walnut	27NT20 or 26NT20	Phono-AM-FM	70W.	4-3 1/2 2-5 1/4 2-12 Whizzer	.46 1.0 6.8	45. 6.4 6.4
MN2607H	Console (lift lid)	Wood	Wood	Cherry	27NT20 or 26NT20	Phono-AM-FM	70W.	4-3 1/2 2-5 1/4 2-12 Whizzer	.46 1.0 6.8	45. 6.4 6.4
MN2608W	Console (lift lid)	Wood	Wood	Cherry	27NT20 or 26NT20	Phono-AM-FM	70W.	4-3 1/2 2-Horn 2-12	.46 1.33 6.8	45. 6.4 6.4
MN2610M	Console (lift lid)	Wood	Wood	Maple	27NT20 or 26NT20	Phono-AM-FM	70W.	4-3 1/2 2-Horn 2-12	.46 1.33 6.8	45. 6.4 6.4
MN2650H	Console (lift lid)	Wood	Wood	Cherry	27NT20 or 26NT20	Phono-AM-FM	70W.	4-3 1/2 2-Horn 2-12	.46 1.33 6.8	45. 6.4 6.4
MN2670W	Console (lift lid) (Pivotal Louver Doors)	Wood	Wood	Walnut	1N26T24 or 1N25T24 8NT24	Phono-AM-FM	160W.	4-3 1/2 2-Horn 2-15	.46 4.28 8.5	45. 8. 6.4
MN2675H	Console (lift lid)	Wood	Wood	Cherry	1N26T24 or 1N25T24 8NT24	Phono-AM-FM	160W.	4-3 1/2 2-Horn 2-15	.46 4.28 8.5	45. 8. 6.4
MN2685H	Console (lift lid)	Wood	Wood	Cherry	1N26T24 or 1N25T24 8NT24	Phono-AM-FM	160W.	4-3 1/2 2-Horn 2-15	.46 4.28 8.5	45. 8. 6.4
MN2685X	Console (lift lid)	Wood	Wood	Antique White	1N25T24 or 1N26T24 8NT24	Phono-AM-FM	160W.	4-3 1/2 2-Horn 2-15	.46 4.28 8.5	45. 8. 6.4
MNT2670W	Console (lift lid) (Pivotal Louver Doors)	Wood	Wood	Walnut	1N26T24 or 1N25T24 8NT24	Phono-AM-FM Tape	160W.	4-3 1/2 2-Horn 2-15	.46 4.28 2-15	45. 8. 6.4
RN2780W-6	Console (lift lid)	Wood	Wood	Walnut	16N24 7L22Z	TV-Phono AM-FM	8.5W.	2-3 1/2 2-8	.46 3.16	45. 6.4

# FEATURES OF HIGH FIDELITY & STEREO FM MODELS

SPEAKER NO.	RECORD CHANGER (SEE NOTES)				CONTROL PANEL	INDICATOR LIGHT	TYPE OF IDENTIFICATION AND SPECIAL FEATURES	RECORD STORAGE	RADIAL SOUND SPEAKER
	TYPE	MOUNTING	CART-RIDGE	STYLUS					
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	7	Yes	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	†
49-978 49-1063	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	†
49-979 49-1064	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	†
49-979 49-1064	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	†
49-979 49-1064	169-252	Shelf	142-151	Diamond Sapphire	Plastic Escutcheon	No	8	Yes	†
49-978 49-1056 49-1058	169-252	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	8	Yes	MR102
49-978 49-1056 49-1058	169-252	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	MR102
49-979 49-1042 49-1045	169-252	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	MR105
49-979 49-1042 49-1045	169-252	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	MR105
49-979 49-1042 49-1045	169-250	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	9	Yes	MR105
49-978 49-1004 49-1073	169-250	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	10	Yes	MR105
49-978 49-1004 49-1073	169-250	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	10	Yes	MR105
49-978 49-1004 49-1073	169-250	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	10	Yes	MR105
49-978 49-1004 49-1073	169-250	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	13	Yes	MR105
49-978 49-1018	169-255	Shelf	142-150	Sapphire Sapphire	Leatherette on Cabinet	No	11	None	†

# FEATURES OF HIGH FIDELITY & STEREO FM MODELS

MODEL NO.	CABINET				CHASSIS			SPEAKER		
	STYLE	MATERIAL	FINISH	COLOR	MODEL	TYPE	EIA POWER OUTPUT	SIZE (IN.)	MAGNET (WT. OZ)	V.C. IMPEDANCE
MN2780W-6	Console (lift lid)	Wood	Wood	Walnut	16N24 9M1T22Z1	TV-Phono AM-FM	8.5W.	2-3 1/2 2-8	.46 3.16	45. 6.4
7050W	Console (lift lid)	Wood	Wood	Walnut	24NC31Z 3L02 7L01Z or 7L01Z4	Color-TV- Phono-AM-FM	8.5W.	2-4 x 6 2-10	1.47 6.8	6.4 6.4
9600W	Console (lift lid)	Wood	Wood	Walnut	25MC36Z 27NT20 or 26NT20	Color TV- Phono-AM-FM	70W.	6-3 1/2 2-12	.46 6.8	45. 6.4
9610M	Console (lift lid)	Wood	Wood	Maple	25MC36Z 27NT20 or 26NT20	Color TV- Phono-AM-FM	70W.	6-3 1/2 2-12	.46 6.8	45. 6.4
9620H	Console (lift lids)	Wood	Wood	Cherry	25MC36Z 26NT20 or 27NT20	Color TV- Phono-AM-FM	70W.	6-3 1/2 2-12	.46 6.8	45. 6.4
9630H	Console (lift lids)	Wood	Wood	Cherry	25MC36Z 26NT20 or 27NT20	Color TV- Phono-AM-FM	70W.	6-3 1/2 2-12	.46 6.8	45. 6.4
9700H	Console (lift lids) (folding doors)	Wood	Wood	Cherry	25NC46Z 1N25T24 or 1N26T24 8NT24	Color TV- Phono-AM-FM	160W.	4-3 1/2 2-Horn 2-12	.46 4.28 6.8	45. 8. 6.4
MR102W	Table	Wood	Wood	Walnut	-----	-----	---	3-1/2 6 x 9	.46 3.16	45. 6.4
MR105W	Table	Wood	Wood	Walnut	-----	-----	---	Horn 6 x 9	1.33 3.16	6.4 6.4

## TYPE OF IDENTIFICATION AND SPECIAL FEATURES

- No. 2 - Battery Powered - Solid State.
- No. 3 - Solid State.
- No. 4 - Stereophonic - Solid State.
- No. 5 - Stereophonic High Fidelity.
- No. 6 - Stereophonic High Fidelity - Solid State Amplifier.
- No. 7 - Stereophonic High Fidelity - Solid State Amplifier-AM-FM.
- No. 8 - Stereophonic High Fidelity - Solid State Amplifier - AM - Stereophonic FM.
- No. 9 - Stereophonic High Fidelity - Solid State - AM - Stereophonic FM.
- No. 10 - Stereophonic High Fidelity - Solid State - Extended Bass - AM - Stereophonic FM.
- No. 11 - ALL CHANNEL - Stereophonic High Fidelity - AM - FM.
- No. 12 - ALL CHANNEL - Stereophonic High Fidelity - AM - Stereophonic FM.
- No. 13 - Stereophonic High Fidelity - Solid State - Extended Bass - AM - Stereophonic FM - Stereophonic Tape.
- No. 14 - ALL CHANNEL COLOR TV - Color Emblem - Solid State - Stereophonic High Fidelity - AM - Stereophonic FM.
- No. 15 - ALL CHANNEL COLOR TV - Color Emblem - Solid State - Stereophonic High Fidelity - AM - Stereophonic FM. Extended Bass - SPACE COMMAND SIX HUNDRED.
- No. 16 - Zenith Radial Sound Speaker.
- No. 17 - None.
- No. 18 - Stereophonic High Fidelity - AM - Stereophonic FM.
- No. 19 - Stereophonic High Fidelity - AM - FM.
- No. 20 - Stereophonic.
- No. 21 - ALL CHANNEL COLOR TV - Color Emblem Stereophonic High Fidelity AM - Stereophonic FM.

NOTE: † - DENOTES MODELS WHICH HAVE PROVISIONS FOR FIELD INSTALLATION OF RADIAL SPEAKER ADAPTER KIT THAT WILL PERMIT USE OF MR102 RADIAL SOUND SPEAKER.

# FEATURES OF HIGH FIDELITY & STEREO FM MODELS

SPEAKER NO.	RECORD CHANGER (SEE NOTES)				CONTROL PANEL	INDI-CATOR LIGHT	TYPE OF IDENTIFICATION AND SPECIAL FEATURES	RECORD STORAGE	RADIAL SOUND SPEAKER
	TYPE	MOUNTING	CART-RIDGE	STYLUS					
49-978 49-1018	169-255	Shelf	142-150	Sapphire Sapphire	Leatherette on Cabinet	No	12	None	†
49-1076 49-961	169-264	Shelf	142-137	Diamond Sapphire	Plastic Escutcheon	No	21	None	†
49-978 49-1082	169-252	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	14	None	MR102
49-978 49-1082	169-252	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	14	None	MR102
49-978 49-1082	169-252	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	14	None	MR102
49-978 49-1082	169-252	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	No	14	None	MR102
49-978 49-1004 49-1080	169-250	Shelf	142-151	Diamond Sapphire	Die-Cast Escutcheon	Yes	15	None	MR105
49-978 49-984	-----	---	----	----	----	No	16	---	---
49-1042 49-984	-----	---	----	----	----	No	16	---	---

## GENERAL INFORMATION

This manual is a supplement to HF-14, and as a result, the majority of the information required for chassis listed herein will be covered in the previous HF-14 manual. Only the exceptions or additions will be in this manual.

### CHASSIS 6L01 SERIES

For chassis 6L01 and all its modifications listed in HF-14, there will be additional modifications in the present line. The only major differences in this new group of chassis is that we have incorporated a new combination bandswitch and AC ON/OFF switch. The major new part used in chassis Z3 through Z6 is 85-910.

OLD	NEW
6L01 . . . . .	6L01Z3
6L01Z . . . . .	6L01Z4
6L01Z1 . . . . .	6L01Z5
6L01Z2 . . . . .	6L01Z6

### CHASSIS 7L01 SERIES

For chassis 7L01 and all its modifications listed in HF-14, there will be additional modifications in the present time. The only major difference in this new group of chassis is that we have incorporated a new combination bandswitch and AC ON/OFF switch. The major new part used in the Z3 through Z6 chassis is 85-907.

OLD	NEW
7L01 . . . . .	7L01Z3
7L01Z . . . . .	7L01Z4
7L01Z1 . . . . .	7L01Z5
7L01Z2 . . . . .	7L01Z6

### CHASSIS 26NT20

The 26NT20 chassis, for all practical purposes, is identical to the 27NT20 chassis, except engineering has modified the mute-gate circuit as well as the stereo indicator switch circuitry.

### MUTE-GATE SYSTEM (See Figure 1)

The Mute Gate System operates as follows: With the mute control a -.65 volts is impressed on the emitter of TR13, while at the base is 0.0 volts; as a result, this transistor is cut off and will not conduct. However, as soon as a 19KC signal comes from T10, that is strong enough to develop -1.0 volts at the base of TR13 the transistor will conduct and amplify. As it amplifies the 19KC signal is doubled by diodes X1 and X2 creating a series of 38KC DC pulses at Test Point N. These 38KC pulses are filtered by the .0033 capacitor. This DC voltage is fed through the 820 ohm resistor to the secondary of T10, to the base of TR13, 19KC amplifier. Since the DC voltage at this point is now more negative, TR13 becomes a higher gain amplifier. Since the amplitude of the 19KC signal is now greater, the 38KC DC pulses will also be larger.

### STEREO INDICATOR SWITCH

During no-signal conditions, there is -.25 volts on the emitter of TR15, the stereo indicator switch, and -0.0 volts on the base; as a result, this transistor is cut off. The moment the 38KC DC pulses at Test Point N are large enough, they will change the bias on TR15, so there will be a -1.2 volts on the base and a -.9 volts on the emitter, thus causing the transistor to conduct. The moment this transistor conducts, the stereo indicator lamp will light up since it is in series with the collector.

### 1N25T24 CHASSIS

The modifications in this chassis are quite similar to those in the 26NT20 chassis. All other circuits remain the same as the previous 1N26T24.

### SIGNAL TRACING IN THE MULTIPLEX PORTION OF THE 1N26T24

Using the Zenith FM multiplex signal generator, the multiplex portion of the 1N26T24, or any other Zenith multiplex receiver can be checked, but first, before any attempt is made to do this it is necessary that the technician be certain that the RF, IF, and ratio detector alignment is correct, and that the receiver operates normally on monaural signals.

Because of the wide bandpass required in the multiplex FM receiver, it is desirable to use an FM signal generator having a deviation of at least 200KC with a sweep rate of 60 cycles, as well as an oscilloscope. During the IF and ratio detector alignment it is not only necessary to obtain maximum gain, but also extremely important to maintain symmetry.

To help achieve this IF curve symmetry 10.6 and 10.8 megacycle markers must be symmetrically positioned and the 10.7 megacycle marker must be at the center of the curve. When aligning the ratio detector 10.5 and 10.9 megacycle markers are desirable, to achieve S curve symmetry. The pattern illustrating marker used to maintain S curve symmetry indicates it is most necessary to adjust for maximum gain and at the same time maintain linearity and symmetry. 10.7 megacycles must be on the curve at the reference line. 10.5 megacycles and 10.9 megacycles must be at the lower and upper turn of the S curve respectively. Only when the IF and ratio detector circuits have been aligned in accordance with these specifications should a technician proceed to signal trace the multiplex portion of the receiver.

### PRELIMINARY PROCEDURES

Before using the Zenith FM multiplex signal generator it is recommended that it be connected to the power source and turned on giving it a 10 to 20 minute warmup period. This will allow ample time for the RF audio and 19 KC oscillators to stabilize.

The following procedure is only necessary when the generator has been received from the factory, or has



been subjected to a great deal of handling or transportation vibration. Although the 19KC pilot generator oscillator is extremely stable, there is always the possibility that it could shift from its precisely assigned frequency. As a result we have a very simple method to check the 19KC pilot frequency using an FM multiplex receiver and FM multiplex station as a frequency standard. Proceed as follows:

1. Tune your FM multiplex receiver to an FM multiplex station and when the pilot lights up, this indicates the 19KC pilot amplifier is functioning. Since the 19KC sine wave is from the transmitter it must be on frequency and can be used as a reference standard. With a cable connect the collector output of TRI3, the 19KC amplifier to the vertical input of a good oscilloscope.
2. On the multiplex generator set the pilot carrier amplitude control to 10%. Place L-R, L+R and 67KC switches in OFF position and connect the composite output terminal directly to the horizontal input of the oscilloscope. On the oscilloscope you will see an oval Lissajous figure which should be motionless when the 19KC output of the generator is synchronized with the 19KC signal from the transmitter. Should the Lissajous figure rotate it will only be necessary to adjust the pilot carrier frequency trimmer on the multiplex generator with an IF alignment wrench until the Lissajous figure ceases to rotate. After the generator has been adjusted to zero beat, disconnect all cables.

The multiplex generator provides a composite multiplex signal as well as an RF signal, FM modulated by the composite multiplex signal.

The composite signal is very useful since it is an excellent tool that can be used in signal tracing the multiplex portion of the receiver. We do not recommend that multiplex alignment be made using only the composite signal injected at the output terminal of the ratio detector tertiary winding, since there is always some phase shift occurring in the RF, IF or ratio detector circuits. As a result, multiplex alignment made by a signal injected at the ratio detector would

not be correct. For proper multiplex alignment the composite signal must FM modulate the RF carrier and then be fed into the FM antenna terminals. With the signal injected in this manner the multiplex alignment would then be the best that could possibly be obtained and separation would be the maximum for this receiver.

### 67KC SIGNAL TRACING (See Figure 2)

Connect the composite multiplex output to terminal 2 of T9, being certain that the pilot carrier amplitude control is at zero (minimum) position. The 67KC switch should be in the UP or ON position and L+R and L-R switches should be in OFF position.

With the 67KC signal on, peak to peak waveforms should be seen as at terminal 2 of T9, the base of TR12 composite amplifier and terminal 5 of transformer T10. During signal tracing, of various chassis, you will not ordinarily expect to obtain the same peak to peak readings as indicated but at least one should expect to obtain the same voltage relationship between these various points.

### 19KC SIGNAL TRACING (See Figure 3)

Turn the pilot carrier amplitude control to approximately 6%. Place L+R, L-R and 67KC switches in OFF position and feed the composite multiplex output which will be a 19KC signal, to terminal 2 of T9. Observe the 19KC sine wave, 38KC DC pulses and the 38KC sine waves at the various points indicated by the waveforms, on the accompanying circuit diagram.

Then, leaving the pilot carrier amplitude control at approximately 6%, place (L+R), (L-R) switches in ON position. With the Zenith multiplex generator you will see peak to peak 1000 cycle waveforms as indicated at the left and right audio outputs after condensers C58 and C78.

When you signal-trace as indicated in the two illustrations any loss of signal from point to point will usually indicate some component failure between these two points.

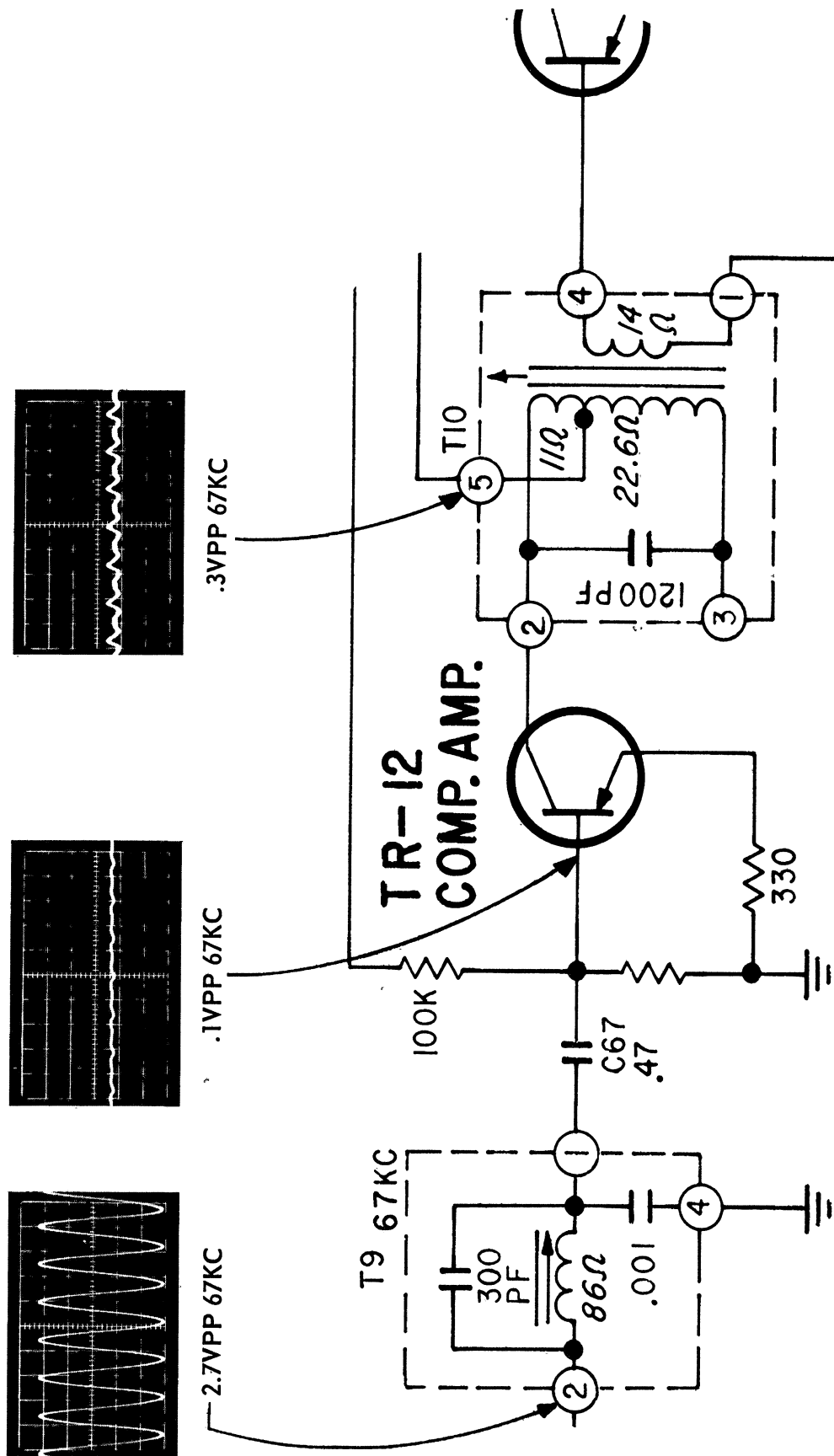


FIGURE 2. 67KC SIGNAL TRACING

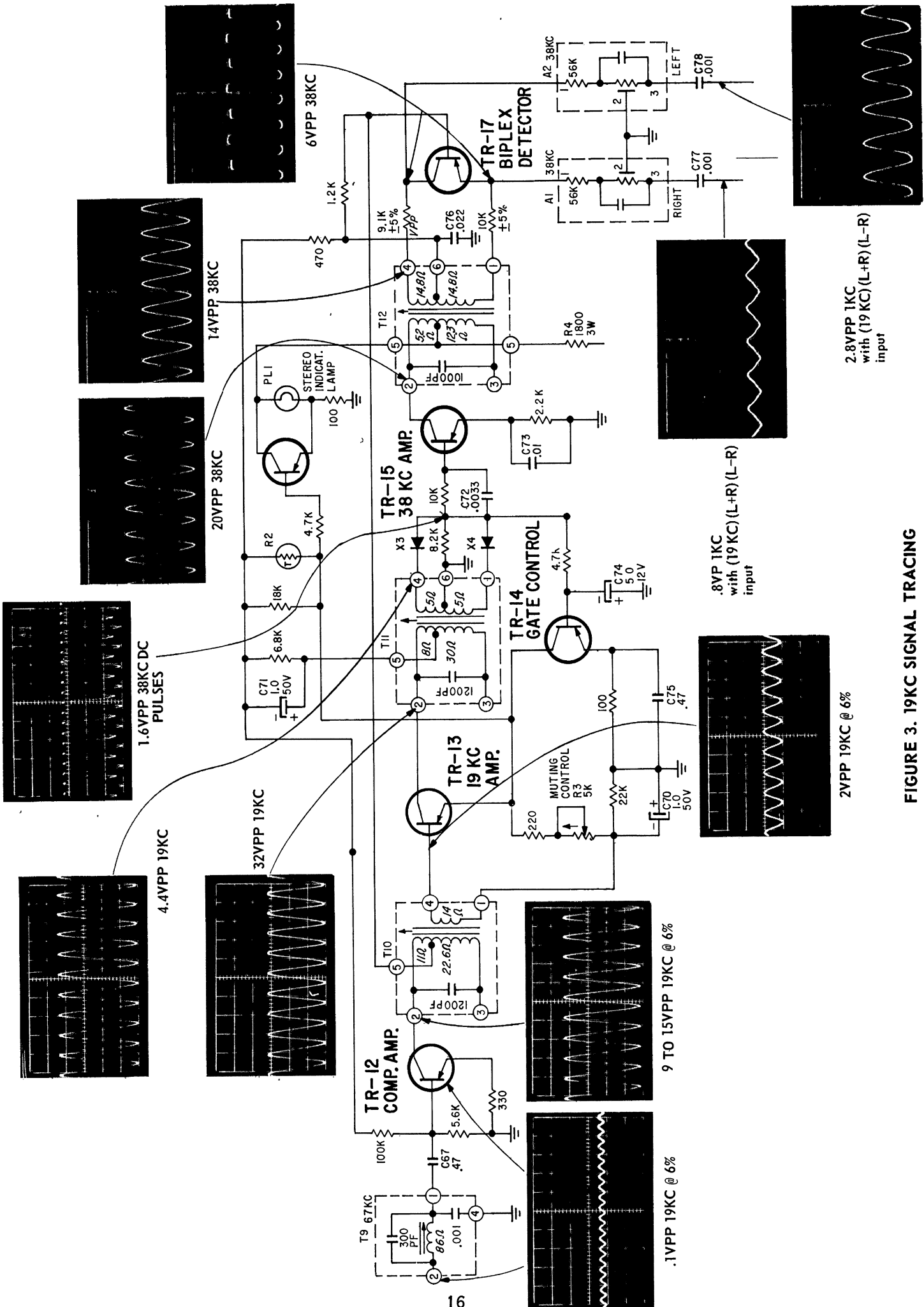
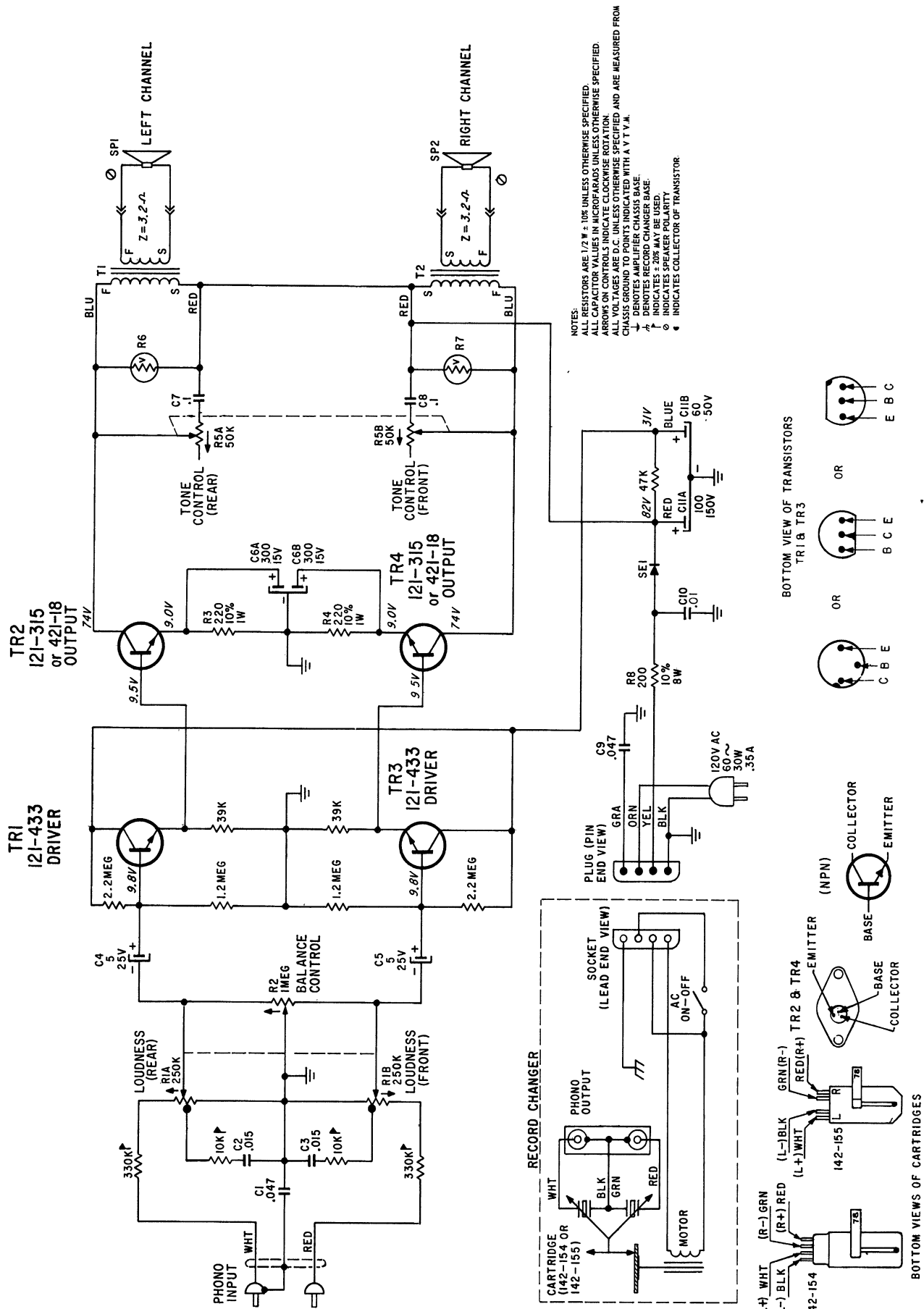
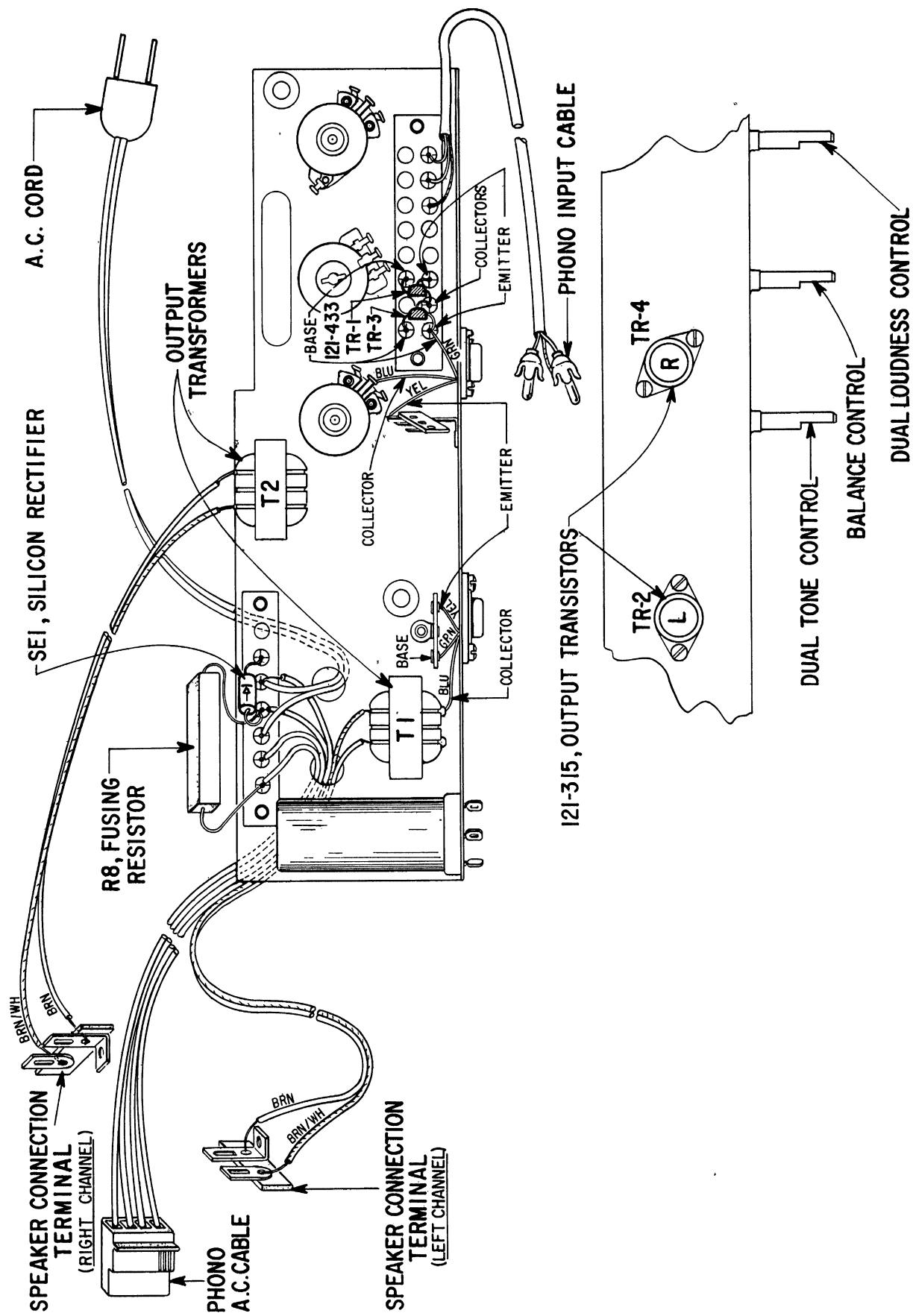
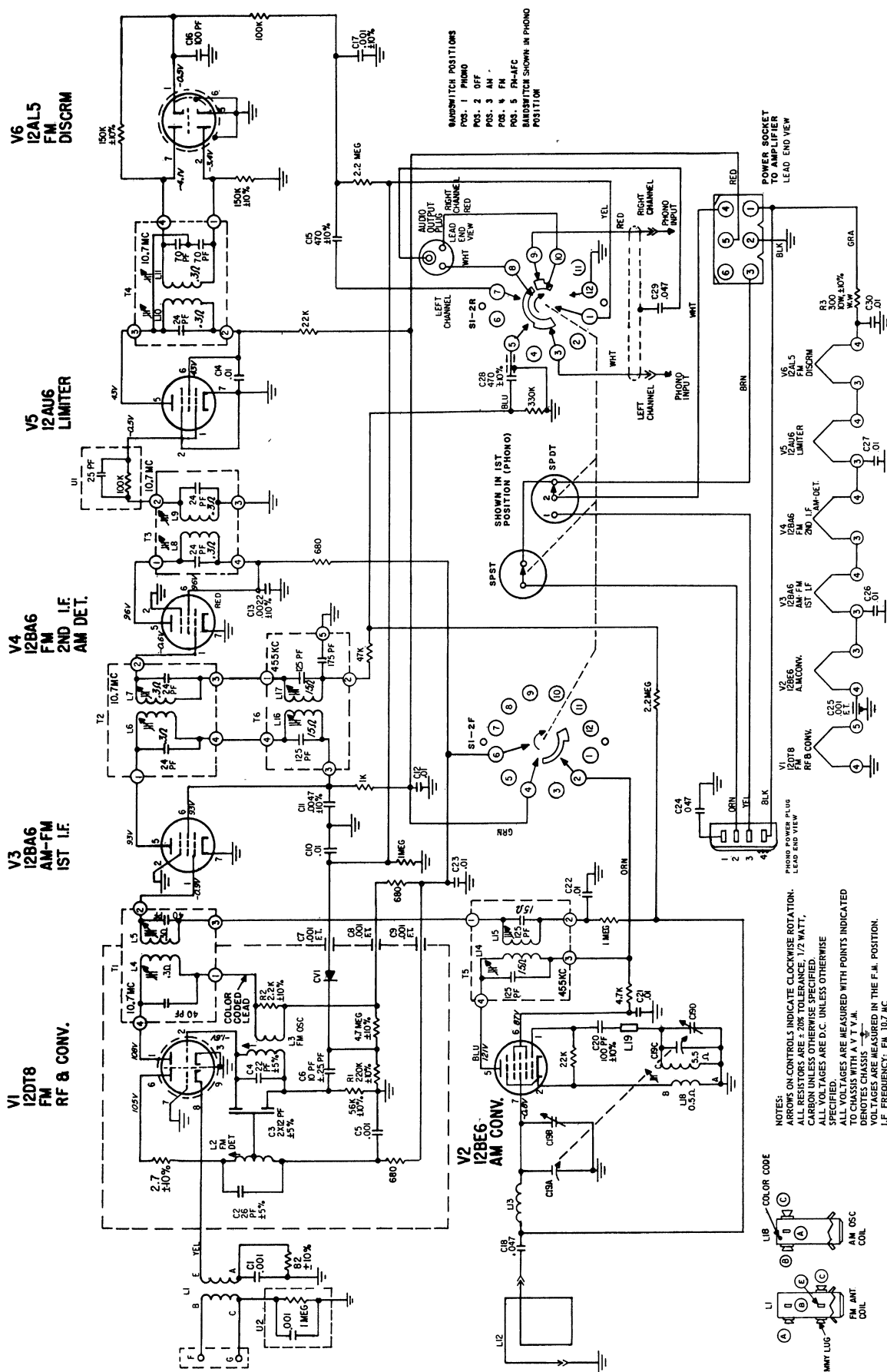


FIGURE 3. 19KC SIGNAL TRACING



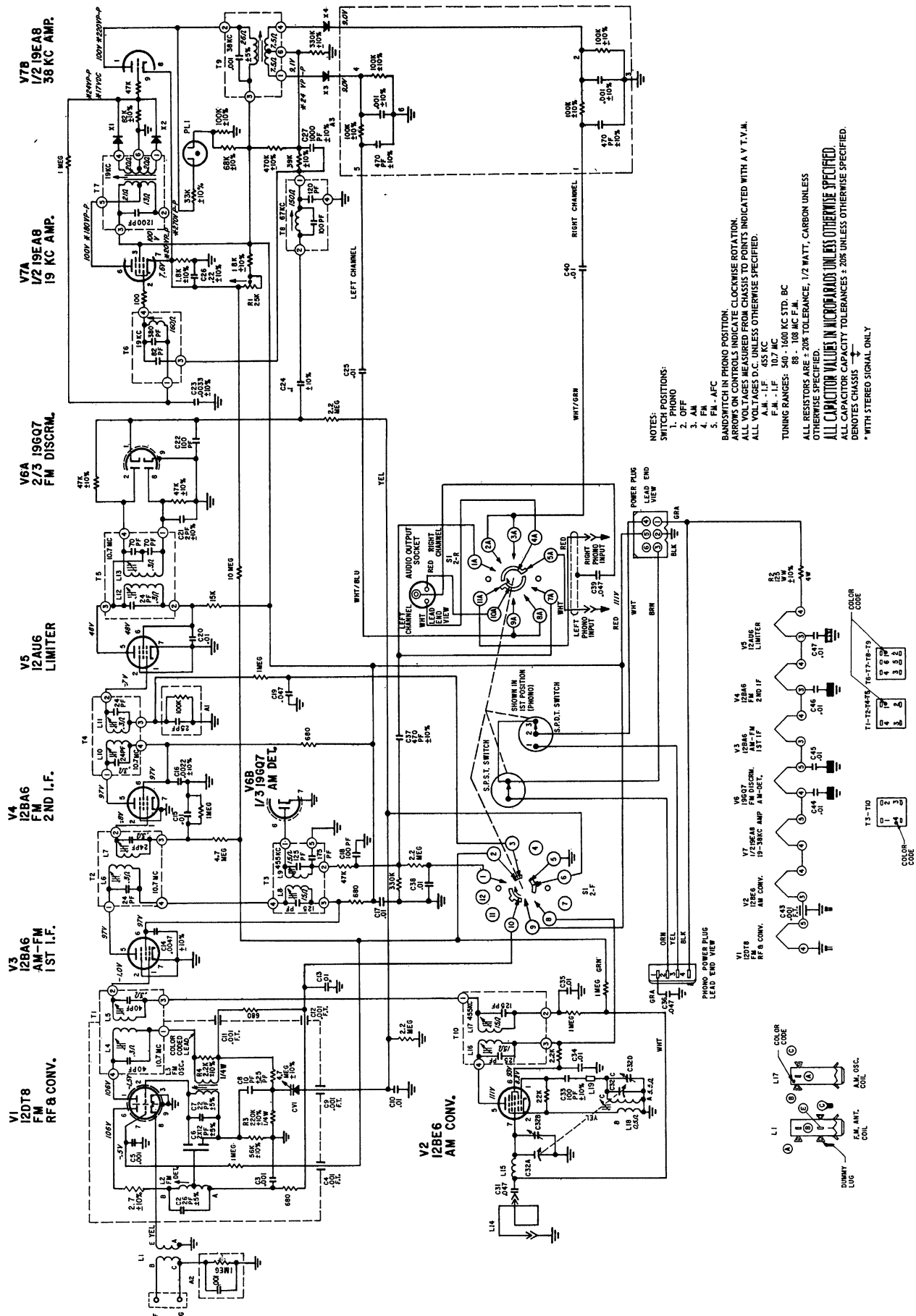


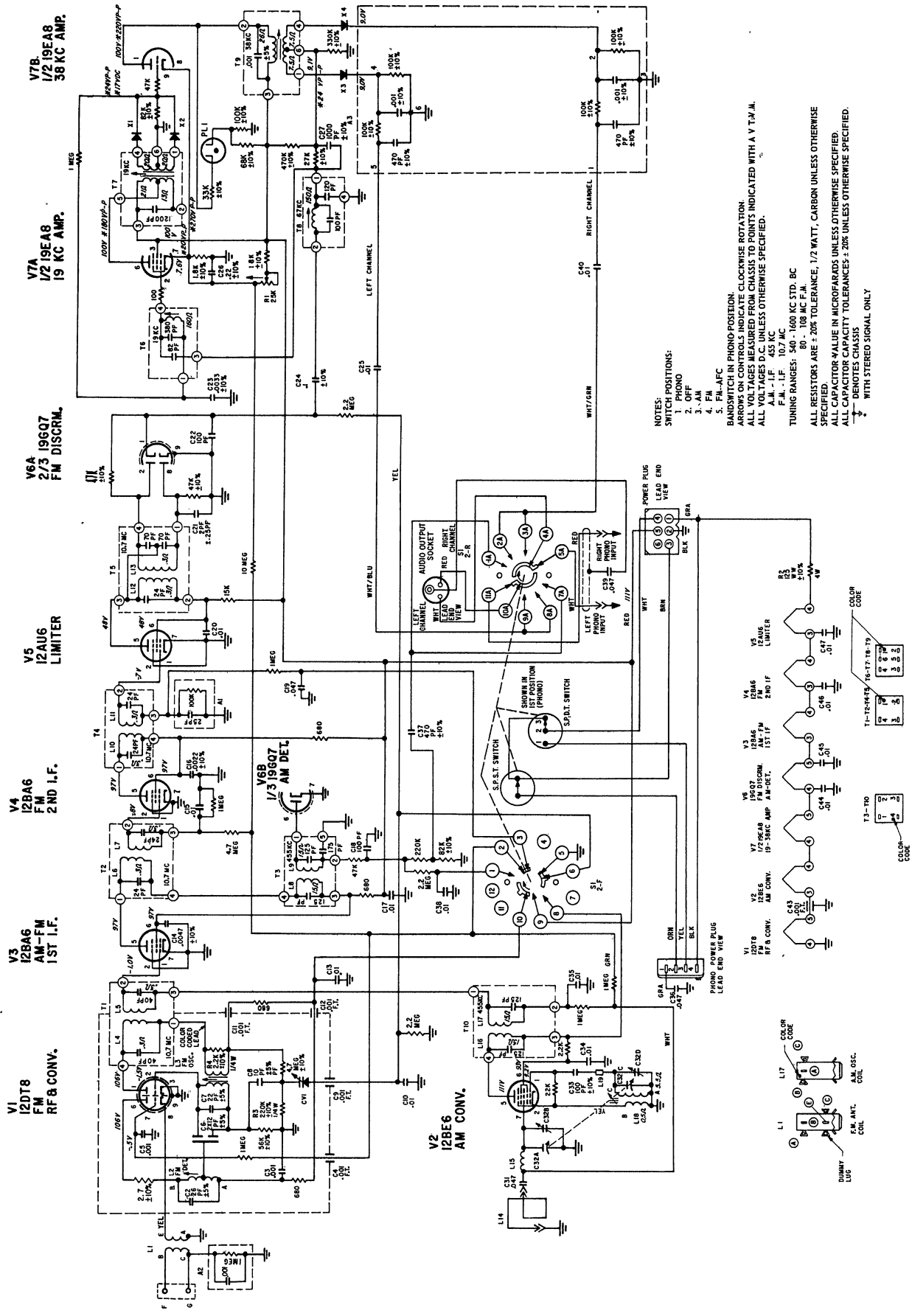
4NT21 CHASSIS LAYOUT



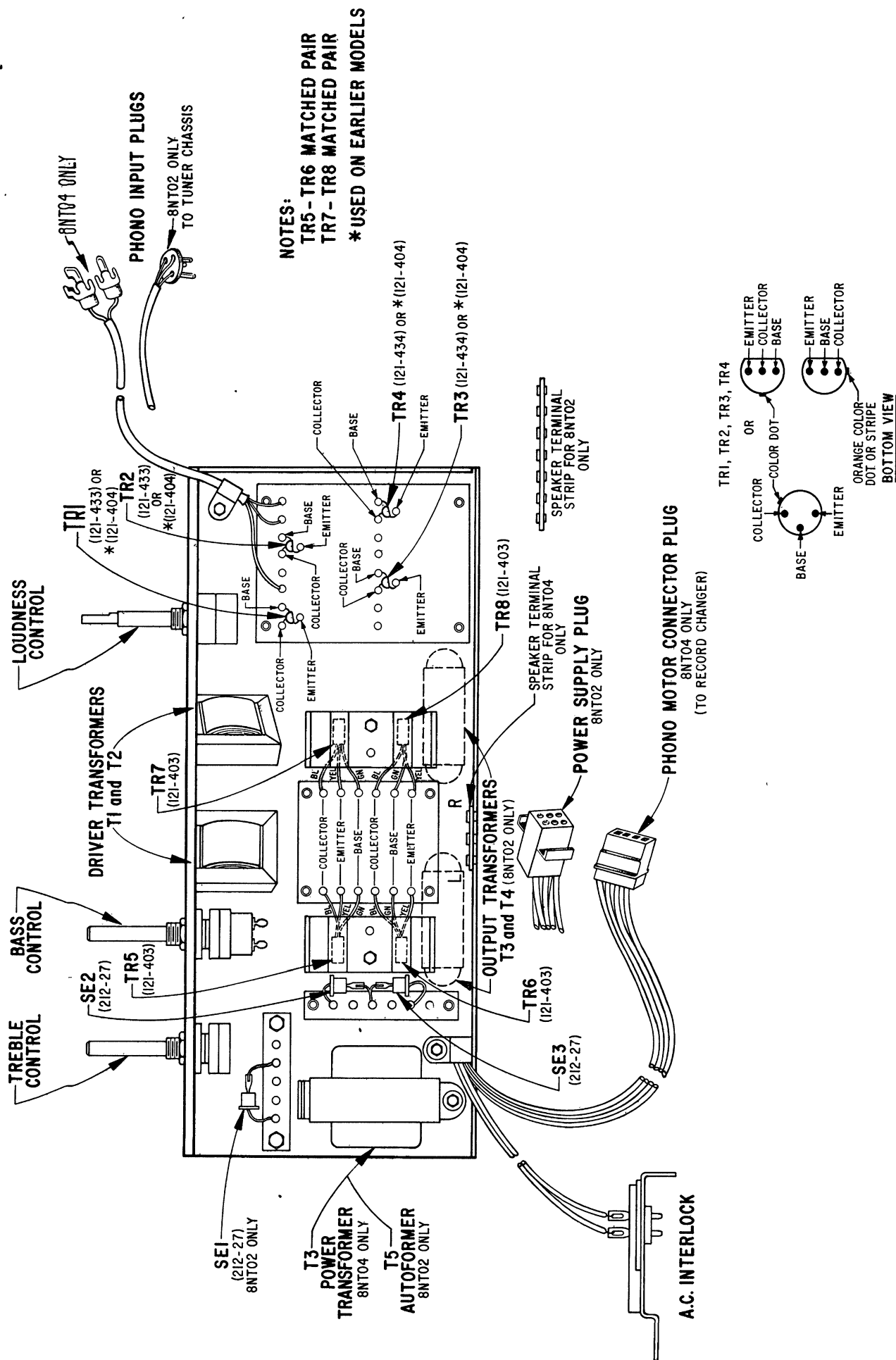
6L01Z3 & 6L01Z4 SCHEMATIC











8NT02 & 8NT04 CHASSIS LAYOUT



## CHASSIS 4NT21

Part No.	Ref. No.	Description	Price	Part No.	Ref. No.	Description	Price
11-183		A.C. Line Cord	\$ .80	63-6458	R5A,R5B	Dual Tone Control	
22-2793	C1, C9	.047 Mf. Disc Capacitor-400V. (2 Required)		63-6459	R1A, R1B	Dual Loudness Control	
22-3317	C7, C8	.1 Mf. Capacitor-200V.(2 req'd.)	.35	63-6460	R2	Balance Control	
22-3896	C4, C5	5 Mf. Electrolytic Capacitor- 25V. (2 Required)	1.00	63-6461	R8	200 Ohm Fusing Type Resistor	
22-4617	C10	.01 Mf. Disc Capacitor	.10	79-174-14		#18 Sleeving-Yellow (3 Required)	.03
or				79-210-10		#22 Sleeving-Green (2 Required)	
22-3		.01 Mf. Disc Capacitor	.30	79-211-10		#22 Sleeving-Blue (2 Required)	
22-4636	C11A,C11B	Electrolytic Capacitor	2.05	83-3459		Two Lug Terminal Strip (2 req'd.)	
22-5233	C2, C3	.015 Mf. Capacitor-50V. (2 Required)		83-3674		Seven Lug Terminal Strip	.20
22-5234	C6A, C6B	Dual Electrolytic Capacitor		83-4871		Transistor Insulating Strip (1 used on each 121-315)	.03
43-519		Socket Contact Housing	.20	83-5498		Sixteen Lug Terminal Strip	
52-1222		Four Conductor Cable	.30	83-5503		Three Lug Terminal Strip (2 required)	
54-384		4-40 Palnut-Cadmium (2 Mt. each 121-315)	.03	86-328		Wire Retaining Terminal	.03
58-214		Single Prong Plug (2 part of S-69705)	.10	86-3334		Socket Terminal	.03
63-1828		10K Ohm Resistor 1/2W. 20% (2 Required)	.17	90-743		Spacer Sleeve (1 used on each 94-1171)	
63-1852		39K Ohm Resistor 1/2W. 10% (2 Required)	.17	94-1171		Insulating Bushing (2 Required)	.10
63-1855		47K Ohm Resistor 1/2W. 10%	.17	94-1287		Shoulder Bushing (2 used on each 121-315)	.10
63-1891		330K Ohm Resistor 1/2W. 20% (2 Required)	.17	95-2373	T1, T2	Output Transformer (2 Required)	
63-1915		1.2 Megohm Resistor 1/2W. 10% (2 Required)	.17	114-940		4-40 x 5/16 x 3/16 Hex Hd. Mach. Screw-Cadmium (2 used on each 121-315)	
63-1925		2.2 Megohm Resistor 1/2W. 10% (2 Required)	.17	121-315		Transistor-Output (2 Required)	4.20
63-5440	R6, R7	Voltage Dependent Resistor (2 Required)	.50	121-433		Transistor-Pre-Amp (2 req'd.)	
63-6042	R3, R4	220 Ohm Resistor 1W. 10% (2 Required)	.25	125-96		Strain Relief Grommet (used on 11-183)	.10
				205-51		Heat Conductive Grease (furnished as part of 121-315)	.70
				212-58	SE1	Rectifier	1.20
				S-69705		Phono Input Cable Assembly	

## CHASSIS 26NT20

12-4209		Chassis Mtg. Bracket (2 req'd.)	\$ .75	22-3010		.01 Mf. Disc Capacitor-25V.	.45
12-4210		Shutter Bracket	.10	22-3034		.05 Mf. Disc Capacitor-25V. (23 Required)	.45
12-4211		Variable Capacitor Mtg. Bracket	.20	22-3177		390 Pf. Disc Capacitor (2 req'd.)	.25
12-4254		Bottom Plate Mtg. Bracket (6 Required)		22-3255		330 Pf. Disc Capacitor (4 req'd.)	.25
19-238		Coil Mtg. Clip (1 part of each S-72828 & S-69165)	.10	22-3448		10 Mf. Electrolytic Capacitor-15V	1.00
19-464		Coil Mtg. Clip (pt. of S-72060)	.05	22-3527		.22 Mf. Disc Capacitor-12V.	.40
20-2033		Peaking Coil	.40	22-3595		.33 Mf. Mylar Capacitor-50V. (4 Required)	.60
22-3		.01 Mf. Disc Capacitor (3 req'd.)	.30	22-3630		.068 Mf. Mylar Capacitor-50V. (2 Required)	.30
22-9		100 Pf. Disc Capacitor	.25	22-3652		.1 Mf. Disc Capacitor-10V.	.30
22-13		.0033 Mf. Disc Capacitor (3 Required)	.25	22-3675		10 Pf. Disc Capacitor	.25
22-17		.001 Mf. Disc Capacitor - 1KV. (2 Required)	.25	22-3678		.047 Mf. Capacitor-100V. (2 req'd.)	.25
22-18		.0022 Mf. Disc Capacitor (2 Required)	.25	22-3710		.22 Mf. Mylar Capacitor-50V. (2 Required)	.50
22-2434		2 Pf. Gimmick Capacitor	.25	22-3826		.022 Mf. Capacitor-100V.	.30
22-2720		1 Pf. Gimmick Capacitor (3 Required)	.20	22-3879		1000 Mf. Electrolytic Capacitor- 50V.	3.50
22-2729		.001 Mf. Disc Capacitor-25V.	.25	22-3892		.01 Mf. Capacitor-100V.	.30
22-2884		5 Mf. Electrolytic Capacitor-12V. (4 Required)	1.50	22-4110		.033 Mf. Mylar Capacitor-200V. (3 Required)	.30

# CHASSIS 26NT20 (Cont'd.)

Part No.	Ref. No.	Description	Price	Part No.	Ref. No.	Description	Price
22-4601		.01 Disc Capacitor-1KV.	.20	63-1792		1500 Ohm Resistor 1/2W. 10% (2 Required)	.17
22-4618		Three Section Variable Capacitor	4.55	63-1796		1800 Ohm Resistor 1/2W. 10% (2 Required)	.17
22-4628		2 x 100 Mf. Electrolytic Capacitor	1.60	63-1799		2200 Ohm Resistor 1/2W. 10% (5 Required)	.17
22-4665		4300 Pf. Mica Capacitor		63-1803		2700 Ohm Resistor 1/2W. 10%	.17
22-5011		Electrolytic Capacitor (2 req'd.)	3.25	63-1806		3300 Ohm Resistor 1/2W. 10% (2 Required)	.17
22-5012		15 Mf. Capacitor-50V. (2 req'd.)	.40	63-1810		3900 Ohm Resistor 1/2W. 10% (4 Required)	.17
22-5018		47 Mf. Capacitor-50V. (6 req'd.)	.60	63-1813		4700 Ohm Resistor 1/2W. 10% (5 Required)	.17
22-5116		.01 Mf. Disc Capacitor-25V.	.20	63-1817		5600 Ohm Resistor 1/2W. 10%	.17
22-5162		Three Section Electrolytic Capacitor	4.47	63-1824		8200 Ohm Resistor 1/2W. 10%	.17
22-5167		1000 Mf. Electrolytic Capacitor	3.20	63-1825		9100 Ohm Resistor 1/2W. 5%	.34
22-5168		300 Mf. Electrolytic Capacitor-25V.	1.35	63-1826		10K Ohm Resistor 1/2W. 5%	.34
22-5187		.0047 Mf. Disc Capacitor-1KV.	.20	63-1827		10K Ohm Resistor 1/2W. 10% (4 Required)	.17
26-1059		AM Dial Scale (pt. of S-69377)	2.95	63-1831		12K Ohm Resistor 1/2W. 10% (3 Required)	.17
26-1061		FM Dial Scale (pt. of S-69377)	2.95	63-1834		15K Ohm Resistor 1/2W. 10% (3 Required)	.17
44-48		Connector Jack (4 pt. of S-69382)	.20	63-1842		22K Ohm Resistor 1/2W. 20%	.17
46-4491		Push Button-On-Off-Monaural (2 Required)	1.10	63-1848		33K Ohm Resistor 1/2W. 10% (5 Required)	.17
52-1103		Two Conductor Cable (used on S-69382)	.15	63-1855		47K Ohm Resistor 1/2W. 10% (2 Required)	.17
52-1212		Two Conductor Shielded Lead (used on S-69382)	.60	63-1862		68K Ohm Resistor 1/2W. 10% (4 Required)	.17
52-1213		Two Conductor Shielded Lead (used on S-69382)	.60	63-1869		100K Ohm Resistor 1/2W. 10% (4 Required)	.17
54-139		3/8-32 x 9/16 Palnut-Cadmium (1 used on ea. 63-6361, 63-6362, 63-6363 & 85-890)	.03	63-1870		100K Ohm Resistor 1/2W. 20% (2 Required)	.17
54-549		Tinnerman Speed Nut (8 mt. 192-351)	.03	63-1876		150K Ohm Resistor 1/2W. 10%	.17
54-633		Transistor Socket Retaining Nut (1 used on ea. 78-1442, 78-1621 & 78-1677)	.10	63-1880		180K Ohm Resistor 1/2W. 10% (2 Required)	.17
57-5377		Chassis Bottom Plate	1.15	63-1912		1 Megohm Resistor 1/2W. 20%	.17
58-246		Two Prong A.C. Plug (part of S-59959)	.15	63-4519		2.7 Megohm Resistor 1/2W. 10% (4 Required)	.17
59-718		Dial Pointer	.50	63-5192		Potentiometer	1.40
62-28		Fuse Holder	.40	63-5305		.51 Ohm Resistor 5W. 10% (2 Required)	.75
63-1701		10 Ohm Resistor 1/2W. 10%	.17	63-5635		150 Ohm Resistor 2W. 10%	.34
63-1722		33 Ohm Resistor 1/2W. 10%	.17	63-5652		390 Ohm Resistor 2W. 10% (2 Required)	.30
63-1736		68 Ohm Resistor 1/2W. 10% (3 Required)	.17	63-5663		680 Ohm Resistor 2W. 10%	
63-1743		100 Ohm Resistor 1/2W. 10%	.17	63-5666		820 Ohm Resistor 2W. 10%	.34
63-1750		150 Ohm Resistor 1/2W. 10%	.17	63-6042		220 Ohm Resistor 1W. 10% (2 Required)	.25
63-1757		220 Ohm Resistor 1/2W. 10% (3 Required)	.17	63-6361		Dual Loudness Control	3.05
63-1761		270 Ohm Resistor 1/2W. 10%	.17	63-6362		Dual Bass Control	2.05
63-1764		330 Ohm Resistor 1/2W. 10% (6 Required)	.17	63-6363		Dual Treble Control	3.50
63-1771		470 Ohm Resistor 1/2W. 10% (9 Required)	.17	63-6376		Potentiometer	.60
63-1775		560 Ohm Resistor 1/2W. 10% (2 Required)	.17	63-6377		50 Ohm Resistor 3W. 10%	.30
63-1778		680 Ohm Resistor 1/2W. 10% (3 Required)	.17	63-6378		.56 Ohm Resistor 5W. 10% (2 Required)	.30
63-1782		820 Ohm Resistor 1/2W. 10% (2 Required)	.17	78-402		Four Contact Socket	.15
63-1785		1K Ohm Resistor 1/2W. 10% (14 Required)	.17	78-1099		Three Contact Socket	.20
63-1789		1200 Ohm Resistor 1/2W. 10%	.17	78-1347		Electrolytic Socket (2 Required)	.10
				78-1429		Triple Light Socket & Wire	1.00

# CHASSIS 26NT20 (Cont'd.)

Part No.	Ref. No.	Description	Price	Part No.	Ref. No.	Description	Price
78-1442		Three Contact Transistor Socket (6 Required)	.30	113-8		6-32 x 1/4 x 1/4 Hex Hd. Mach. Screw-Int. Shakeproof Lock-washer (4 used on S-71213 & 2 used on 22-4618)	.03
78-1443		Stereo Indicator Light Socket & Wire	.50				
78-1568		Power Transistor Socket (2 part of each S-69387)	.35	113-156		6-32 x 9/16 Phillips Pan Hd. Mach. Screw-Int. Lockwasher Attached (8 used on Chassis)	.03
78-1621		Three Contact Transistor Socket (9 Required)	.20	114-335		8-18 x 1/2 x 1/4 Hex Hd. Self Tap. Screw-Stat. Bronze (4 join S-69401 & Chassis)	.03
78-1677		Four Contact Transistor Socket (4 Required)					
80-1140		Pointer Tension Spring	.10	114-344		6-20 x 1/4 x 1/4 Hex Hd. Self Tap. Screw-Stat. Bronze (3 Mt. 126-1150)	.03
80-1188		Gang Tension Spring	.10				
80-1763		Retaining Spring (2 Required)	.03	114-654		6-20 x 3/8 x 1/4 Hex Hd. Self Tap. Screw-Stat. Bronze (4 Mt. each S-69387 & 2 Mt. 85-892)	.03
80-1863		Shutter Bracket Return Spring	.10				
83-3641		Five Lug Terminal Strip	.10	114-709		8-18 x 1-1/8 x 1/4 Hex Hd. Self Tap. Screw-Stat. Bronze (joins S-69401 & Chassis)	.03
83-3652		Three Lug Terminal Strip	.05				
83-5277		Transistor Insulating Strip (4 Required)	.03	114-711		4-24 x 7/32 Hex Hd. Self Tap. Screw Stat. Bronze-Flat Washer attached (1 Mts. 12-4210)	.05
83-5284		Five Lug Terminal Strip	.15				
83-5286		Eight Lug Terminal Strip	.20	114-801		8-18 x 5/16 x 1/4 Hex. Hd. Self Tap. Screw-Stat. Bronze (20 Required)	.03
83-5288		Thirteen Lug Terminal Strip	.35				
83-5289		Fifteen Lug Terminal Strip (2 Required)	.40	114-804		8-18 x 1/2 Hex Hd. Self-Tap. Screw Stat. Bronze-Flat Washer attached (8 used on Chassis)	.03
83-5291		Insulating Strip	.03				
83-5307		Pointer Support (2 Required)	.15	114-823		6-20 x 1/2 Hex Hd. Self Tap. Screw-Stat. Bronze-Flat Washer attached (6 Mt. 57-5377)	.03
83-5308		Support Strip	.75				
83-5309		Thirty Lug Terminal Strip	.70	121-273		Transistor-A.G.C. Amp	.80
83-5310		Trim Strip-Push Button	1.85	121-305		Transistor-Pre.Driver (2 Req'd.)	.55
83-5311		Trim Strip-Tone Control	1.85	121-306		Transistor-Pre. Amp. (2 Req'd.)	.70
83-5312		Trim Strip-Bandswitch	1.85	121-347		Transistor-Plex Detector	1.10
83-5328		Eleven Lug Terminal Strip (2 Required)	.35	121-348		Transistor (4 Required)	1.10
83-5329		Rubber Channel Strip (2 used on each 192-351)	.15	121-397		Transistor-AM Mixer, AM Osc., AM RF., (3 Required)	1.45
83-5399		Four Lug Terminal Strip	.20	121-398		Transistor-Power Output (4 Required)	2.50
85-890		Five Position Bandswitch	3.80	121-399		Transistor-Driver (2 Required)	1.20
85-891		A.C. Switch	3.10	121-414		Transistor	1.45
85-892		Stereo-Monaural Switch	1.80	121-415		Transistor (3 Required)	1.45
86-328		Wire Retaining Terminal	.03	125-117		Rubber Grommet (4 used on Chassis)	.03
86-388		Connector Terminal (2 used on 78-1443)	.05	126-1106		Heat Dissipator (2 Required)	.10
93-2		.016 x .134 x 1/4 Brass Washer	.03	126-1150		Light Shield	
95-2313		Doubler Mixer Transformer	3.05	136-40		Fuse - 2 Amp.	.35
95-2314		Detector Mixer Transformer	2.90	149-211		Iron Core (1 pt. of ea. S-69165 & S-72828)	.10
95-2315		Input Mixer Transformer	3.05				
95-2316		Trap Coil	1.86	149-370		Iron Core (part of S-72060)	.15
95-2324		Ratio Detector Transformer	4.75	159-154		Plug Button (4 part of S-69377)	.10
95-2325		1st I.F. Transformer-AM	1.80	188-54		Knob Clamping Ring (part of S-68369)	.03
95-2326		2nd I.F. Transformer-AM	1.95				
95-2327		3rd I.F. Transformer-AM	2.65	188-120		Knob Clamping Ring (pt of S-69406)	.03
95-2328		2nd & 4th I.F. Transformer-FM (2 Required)	1.90	188-177		Knob Clamping Ring (part of S-69402, S-69403 & S-69404)	.03
95-2330		Driver Transformer (2 Required)	3.15			Dial Crystal (2 Required)	.45
95-2335		Power Transformer	12.55	192-351		Shielded Paper Sleeve	.05
95-2387		3rd I.F. Transformer-FM		199-405		Heat Conductive Grease (Furnished as part of 121-398)	.70
100-249		Pilot Light Bulb (3 Required)	.18	205-51			
100-362		Stereo Indicator Bulb	.90				
102-6296		Speaker Label	.03				
102-9748		Fuse Label	.03				
103-23		Diode (3 Required)	.75				
103-85		Diode	1.60				
105-93		38KC Filter (2 Required)	.80				

## CHASSIS 26NT20 (Cont'd.)

Part No.	Ref. No.	Description	Price	Part No.	Ref. No.	Description	Price
212-61		Rectifier (2 Required)	1.35	S-69404		Knob & Ring Ass-embly-	
S-49418		Drive Cord & Eyelet Assembly-				Bandswitch	1.55
		Pointer	.20	S-69406		Knob & Ring Ass embly-Balance	1.15
S-59959		A.C. Interlock & Bracket Assem.	.40	S-71057		Drive Cord & Eyelet Assembly-	
S-61578		Drive Cord & Eyelet Assembly-				Gang	.30
		Gang	.15	S-71060		Drive Cord & Eyelet Assembly-	
S-68369		Knob & Ring Assem.-Loudness	2.10			Pointer	.25
S-69165		Detector Coil Assem. AM	1.40	S-71213		Control Panel Assembly	
S-69377		Dial Scale & Shield Assembly	8.05	S-71214		Bracket & Terminal Strip Assem.	.95
S-69382		Tape Jack & Bracket Assembly	.95	S-72060		Antenna Coil Assembly - AM	1.30
S-69387		Heat Sink & Socket Assembly		S-72586		FM Tuner Assembly (See FM	
		(2 Required)				Tuner Parts List For	
S-69401		Escutcheon Assembly	17.55			Components)	
S-69402		Knob & Ring Assembly-Tuning	1.60	S-72828		Oscillator Coil Assembly-AM	
S-69403		Knob & Ring Assembly-Bass-					
		Treble (2 Required)	1.00				

## CHASSIS IN25T24

12-3685		Pulley Bearing Bracket	.50	22-3670		2 Mf. Electrolytic Capacitor-6V.	
12-3686		Indicator Light Front Bracket				(2 Required)	1.00
		(3 Required)	.10	22-3675		10 Pf. Disc Capacitor-500V.	.25
12-3691		Switch Mtg. Bracket	.75	22-3687		1 Mf. Electrolytic Capacitor-50V.	
12-3971		Light Reflection Bracket	.75			(4 Required)	.90
12-4120		Variable Capacitor Mtg. Bracket	.55	22-3826		.022 Mf. Mylar Capacitor-100V.	
17-149		Cable Clamp	.05			(7 Required)	.30
19-238		Coil Mtg. Clip (1 part of each		22-3865		Three Section Variable Capacitor	4.50
		S-69165 & S-72828)	.10	22-3891		.0068 Mf. Capacitor-100V. (4	
19-464		Coil Mtg. Clip (part of S-72060)	.05			Required)	.30
20-2033		Peaking Coil (2 Required)	.40	22-3896		5 Mf. Electrolytic Capacitor-25V.	
22-9		100 Pf. Disc Capacitor - 500V.	.25			(4 Required)	1.00
22-12		.0015 Mf. Disc Capacitor-500V.		22-4665		4300 Pf. Capacitor-100V.	
		(2 Required)		22-5012		.15 Mf. Mylar Capacitor-50V.	
22-13		.0033 Mf. Disc. Capacitor-500V.	.25			(7 Required)	.40
22-17		.001 Mf. Disc Capacitor-1000V.		22-5116		.01 Mf. Disc Capacitor-25V.	.20
		(4 Required)	.25	22-5168		300 Mf. Electrolytic Capacitor-	
22-18		.0022 Mf. Disc Capacitor-500V.				25V.	1.35
		(2 Required)	.25	22-5184		.047 Mf. Capacitor-100V.	.30
22-2424		1.5 Pf. Gimmick Capacitor-500V.	.20	24-1373		Chassis Bottom Cover	2.00
22-2434		2 Pf. Gimmick Capacitor-500V.	.25	24-1374		Balance & Volume Relection	
22-2720		1 Pf. Gimmick Capacitor-500V.				Cover	.60
		(3 Required)	.20	26-993		FM Dial Scale	2.65
22-2726		50 Mf. Electrolytic Capacitor-10V.		26-994		AM Dial Scale	2.70
		(4 Required)	1.50	26-995		Log Scale	1.10
22-2729		.001 Mf. Disc Capacitor-25V.	.25	43-570		6 Lug Male Contact Housing	.45
22-2884		5 Mf. Electrolytic Capacitor-10V.		43-571		9 Lug Male Contact Housing	.30
		(2 Required)	1.50	46-4276		On-Off Push Button	1.30
22-3010		.01 Mf. Disc Capacitor-25V.		46-4376		Tape Push Button	.95
		(6 Required)	.45	46-4377		FM Push Button	.95
22-3034		.05 Mf. Disc Capacitor-500V.		46-4378		AM Push Button	.95
		(22 Required)	.45	46-4379		FM-AFC Push Button	.95
22-3177		390 Pf. Disc Capacitor (2 req'd.)	.25	46-4380		Ext. Bass Push Button	.95
22-3255		330 Pf. Disc Capacitor-500V.		46-4381		Monaural Push Button	.95
		(2 Required)	.25	46-4382		Stereo Push Button	.95
22-3362		560 Pf. Disc Capacitor-500V.	.25	46-4383		Phono Push Button	.95
22-3443		.47 Mf. Mylar Capacitor-50V.		52-1067		Two Conductor Shielded Lead-	
		(2 Required)	.60			Bandswitch	.50
22-3448		10 Mf. Electrolytic Capacitor-		52-1214		Two Conductor Shielded Lead	
		15V.	1.00			(used on 43-571)	.65
22-3527		.22 Mf. Disc Capacitor-12V.	.40	52-1215		Two Conductor Shielded Lead	.45
22-3652		.1 Mf. Disc Capacitor-10V.	.30	52-1216		Two Conductor Shielded Lead	.45

# CHASSIS IN25T24 (Cont'd.)

Part No.	Ref. No.	Description	Price	Part No.	Ref. No.	Description	Price
54-139		3/8-32 x 9/16 Palnut-Cadmium (1 Mts. each 63-5147, 63-5213, 63-5372 & 63-6346)	.03	63-1835		15K Ohm Resistor 1/2W. 20% (2 Required)	.17
54-541		Palnut (5 used on 57-5221)	.03	63-1841		22K Ohm Resistor 1/2W. 10% (2 Required)	.17
54-633		Transistor Socket Mtg. Nut (21 Required)	.10	63-1845		27K Ohm Resistor 1/2W. 10% (3 Required)	.17
54-652		Palnut (2 used on 24-1374)	.03	63-1848		33K Ohm Resistor 1/2W. 10% (3 Required)	.17
56-426		Roll Pin (2 used on 94-1344)	.05	63-1852		39K Ohm Resistor 1/2W. 10% (2 Required)	.17
57-4431		Indicator Light Backing Plate (3 Required)	.05	63-1859		56K Ohm Resistor 1/2W. 10% (2 Required)	.17
57-5221		Die Cast Escutcheon	10.85	63-1861		68K Ohm Resistor 1/2W. 5%	.34
59-688		Dial Pointer	.35	63-1862		68K Ohm Resistor 1/2W. 10% (4 Required)	.17
61-256		Tone Control Pulley (3 req'd.)	.30	63-1869		100K Ohm Resistor 1/2W. 10% (3 Required)	.17
63-1701		10 Ohm Resistor 1/2W. 10% (2 Required)	.17	63-1873		120K Ohm Resistor 1/2W. 10%	.17
63-1722		33 Ohm Resistor 1/2W. 10%	.17	63-1876		150K Ohm Resistor 1/2W. 10% (8 Required)	.17
63-1736		68 Ohm Resistor 1/2W. 10%	.17	63-1897		470K Ohm Resistor 1/2W. 10% (2 Required)	.17
63-1743		100 Ohm Resistor 1/2W. 10% (3 Required)	.17	63-1898		470K Ohm Resistor 1/2W. 20%	.17
63-1757		220 Ohm Resistor 1/2W. 10% (2 Required)	.17	63-1912		1 Megohm Resistor 1/2W. 20%	.17
63-1761		270 Ohm Resistor 1/2W. 10%	.17	63-1925		2.2 Megohm Resistor 1/2W. 10%	.17
63-1764		330 Ohm Resistor 1/2W. 10% (6 Required)	.17	63-1960		15 Megohm Resistor 1/2W. 10% (2 Required)	.17
63-1771		470 Ohm Resistor 1/2W. 10% (8 Required)	.17	63-5147		Dual Bass Control	2.75
63-1775		560 Ohm Resistor 1/2W. 10% (2 Required)	.17	63-5192		Potentiometer	1.40
63-1778		680 Ohm Resistor 1/2W. 10% (3 Required)	.17	63-5205		1K Ohm Resistor 4W. 10%	.65
63-1782		820 Ohm Resistor 1/2W. 10% (2 Required)	.17	63-5213		Dual Presence Control	3.00
63-1785		1000 Ohm Resistor 1/2W. 10% (12 Required)	.17	63-5372		Dual Treble Control	3.00
63-1789		1200 Ohm Resistor 1/2W. 10% (3 Required)	.17	63-5659		560 Ohm Resistor 2W. 10%	
63-1792		1500 Ohm Resistor 1/2W. 10% (2 Required)	.17	63-6346		Dual Loudness Control	4.95
63-1796		1800 Ohm Resistor 1/2W. 10% (3 Required)	.17	63-6376		Potentiometer	.60
63-1799		2200 Ohm Resistor 1/2W. 10% (5 Required)	.17	78-1089		Molded Tube Socket	.25
63-1803		2700 Ohm Resistor 1/2W. 10% (2 Required)	.17	78-1099		Three Contact Socket	.20
63-1806		3300 Ohm Resistor 1/2W. 10% (2 Required)	.17	78-1416		Dial Light Socket & Wire	1.25
63-1810		3900 Ohm Resistor 1/2W. 10% (4 Required)	.17	78-1444		Stereo Indicator Light Socket & Wire	.70
63-1813		4700 Ohm Resistor 1/2W. 10% (7 Required)	.17	78-1445		Loudness Indicator Light Socket & Wire	.30
63-1817		5600 Ohm Resistor 1/2W. 10%	.17	78-1569		Tone Indicator Light Socket & Wire (3 Required)	.50
63-1820		6800 Ohm Resistor 1/2W. 10%	.17	78-1621		Transistor Socket (17 req'd.)	.20
63-1824		8200 Ohm Resistor 1/2W. 10%	.17	78-1677		Transistor Socket (4 req'd.)	
63-1825		9100 Ohm Resistor 1/2W. 5%	.34	80-1188		Gang Tension Spring	.10
63-1826		10K Ohm Resistor 1/2W. 5%	.34	80-1682		Glass Retaining Spring (5 req'd.)	.05
63-1827		10K Ohm Resistor 1/2W. 10% (12 Required)	.17	80-1683		Tone Pulley Tension Spring (3 Required)	.20
63-1831		12K Ohm Resistor 1/2W. 10% (2 Required)	.17	80-1718		Pointer Tension Spring	.15
63-1834		15K Ohm Resistor 1/2W. 10% (4 Required)	.17	80-1763		Retaining Spring (1 part of each S-61711)	.03
				80-1819		Tuning Tube Retaining Spring	.10
				83-1475		Cable Retaining Strip	.03
				83-3746		Rubber Strip	.03
				83-4543		Center Bar Rubber Strip (3 req'd.)	.03
				83-4565		Rubber Channel Strip (2 req'd.)	.05
				83-4566		Rubber Channel Strip (2 req'd.)	.20
				83-4850		Five Contact Strip (Part of S-69168)	.35
				83-4997		Four Lug Terminal Strip	.10

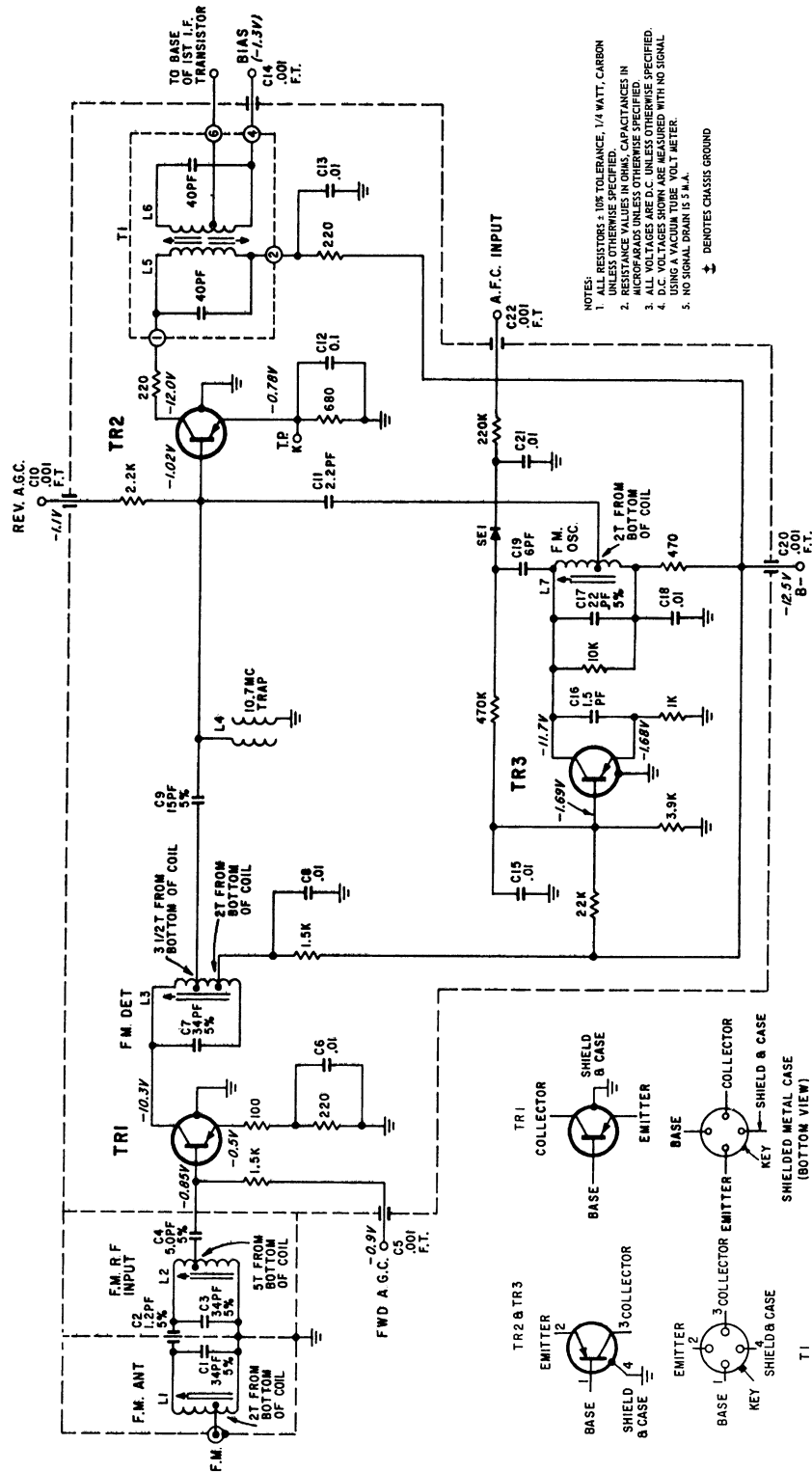
# CHASSIS IN25T24 (Cont'd.)

Part No.	Ref. No.	Description	Price	Part No.	Ref. No.	Description	Price
83-5031		Rubber Strip	.03	121-274		Transistor-Pre.-Amp. (2 req'd.)	.80
83-5052		Six Lug Terminal Strip	.20	121-347		Transistor	1.10
83-5054		Insulating Strip (used on 83-5052)	.03	121-348		Transistor (4 Required)	1.10
83-5075		Two Lug Terminal Strip (3 req'd.)	.05	121-396		Transistor	1.20
83-5152		Escutcheon Trim Strip	2.45	121-397		Transistor (3 Required)	1.45
83-5286		Eight Lug Terminal Strip	.20	121-414		Transistor	1.45
83-5287		Ten Lug Terminal Strip	.25	121-415		Transistor (3 Required)	1.45
83-5288		Thirteen Lug Terminal Strip		125-117		Rubber Grommet (4 used on S-72586)	.03
		(2 Required)	.35			Tone Indicator Background Shield	.50
83-5289		Fifteen Lug Terminal Strip	.40	126-1050		Transistor Shield	.59
83-5290		Nineteen Lug Terminal Strip		126-1051		Hum Shield	1.00
		(2 Required)	.45	126-1091		Iron Core (1 part of each S-69165 & S-72828)	.10
83-5398		A.C. Switch Insulating Strip	.05	149-211		Iron Core (part of S-72060)	.15
83-5399		Four Lug Terminal Strip (part of S-69169)	.20	149-370		Stereo Indicator Lens	.90
83-5410		Three Lug Terminal Strip	.10	171-35		Knob Clamping Ring (part of S-69159)	.03
85-863		Push Button Bandswitch	16.95	188-54		Knob Clamping Ring (part of S-69160)	.03
85-864		A.C. Switch		188-120		Knob Clamping Ring (1 part of each S-69156 & S-69402)	.03
86-344		Connector Terminal (used on 78-1416)	.03	188-177		Clamping Ring (4 part of S-61712)	.03
86-388		Connector Terminal (2 used on 78-1444)	.05	188-367		Dial Crystal	.60
86-390		Connector Terminal - Male (14 Required)	.03	192-320		Shielded Paper Sleeve	
93-1674		Diffusion Washer	.03	199-398		Drive Cord & Eyelet Assembly - Pointer	.20
94-1344		Shaft Bushing-FM Tuner	.40	S-47742		Pointer Support & Ring Assembly (2 Required)	.10
95-2313		Doubler Mixer Transformer	3.05	S-61711		Tone Indicator & Ring Assembly	3.50
95-2314		Detector Mixer Transformer	2.90	S-61712		Tone Indicator Mtg. Bracket Assembly	1.50
95-2315		Input Mixer Transformer	3.05	S-61714		Drive Cord & Eyelet Assembly-Gang	.15
95-2316		Trap Coil	1.86	S-61727		Drive Cord & Eyelet Assembly-Gang	.15
95-2324		Ratio Detector Transformer	4.75	S-61728		Drive Cord & Eyelet Assembly-Bass	.15
95-2325		1st I.F. Transformer-AM	1.80	S-61730		Drive Cord & Eyelet Assembly-Presence	.15
95-2326		2nd I.F. Transformer-AM	1.95	S-61731		Dial Plate & Backing Plate Assem.	
95-2327		3rd I.F. Transformer-AM	2.65	S-69047		Knob & Ring Assembly-Bass-Treble-Presence (3 Required)	1.15
95-2328		2nd & 4th I.F. Transformer-FM (2 Required)	1.90	S-69156		Bracket & Socket Assembly	.35
95-2387		3rd I.F. Transformer-FM		S-69158		Knob & Ring Assembly-Loudness	2.15
100-249		Pilot Light Bulb (9 Required)	.18	S-69159		Knob & Ring Assembly-Balance	.75
100-362		Stereo Indicator Bulb	.90	S-69160		Detector Coil Assembly-AM	1.40
103-19		Diode	.75	S-69165		Escutcheon Mtg. Bracket Assembly-R.H.	2.45
103-23		Diode (3 Required)	.75	S-69168		Escutcheon Mtg. Bracket Assembly-L.H.	2.10
103-96		Diode	1.75	S-69169		Knob & Ring Assembly-Tuning	1.60
105-93		38 KC Filter (2 Required)	.80	S-69402		Shield & Lens Assembly-Bass	.50
113-8		6-32 x 1/4 x 1/4 Hex Hd. Mach. Screw-Nickel Plate-Int. Shake-proof Lockwasher (3 used on 22-3865)	.03	S-71172		Shield & Lens Assembly-Treble	.50
114-26		8-18 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat. Bronze (3 used on 85-864)	.03	S-71173		Shield & Lens Assembly-Presence	.50
114-344		6-20 x 1/4 x 1/4 Hex Hd. Self-Tap Screw-Stat. Bronze (13 Required)	.03	S-71174		Drive Cord & Eyelet Assembly-Treble	.45
114-390		8-18 x 7/16 x 1/4 Hex. Hd. Self Tap. Screw-Stat. Bronze (5 used on 57-5221)	.03	S-71883		Drive Cord & Eyelet Assembly-Pointer	.40
114-801		8-18 x 5/16 x 1/4 Hex Hd. Self Tap. Screw-Stat. Bronze (22 used on Chassis)	.03	S-71884		Antenna Coil Assembly-AM	1.30
114-804		8-18 x 1/2 Hex Hd. Self Tap. Screw-Stat. Bronze-Flat Washer attached (4 used on S-72586)	.03	S-72060		FM Tuner Assembly (See FM Tuner Parts List For Components)	
121-272		Transistor-Pre.-Amp. (2 req'd.)	1.50	S-72586		Oscillator Coil Assembly-AM	
121-273		Transistor-Pre.-Amp. (5 req'd.)	.80	S-72828			

# NOTES

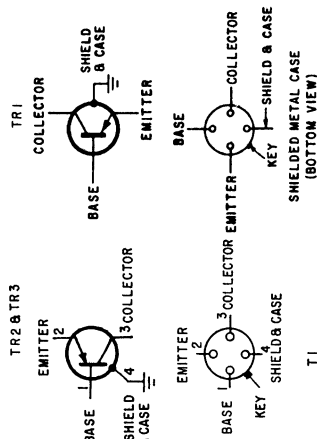
# NOTES

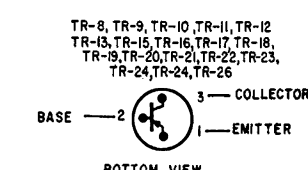
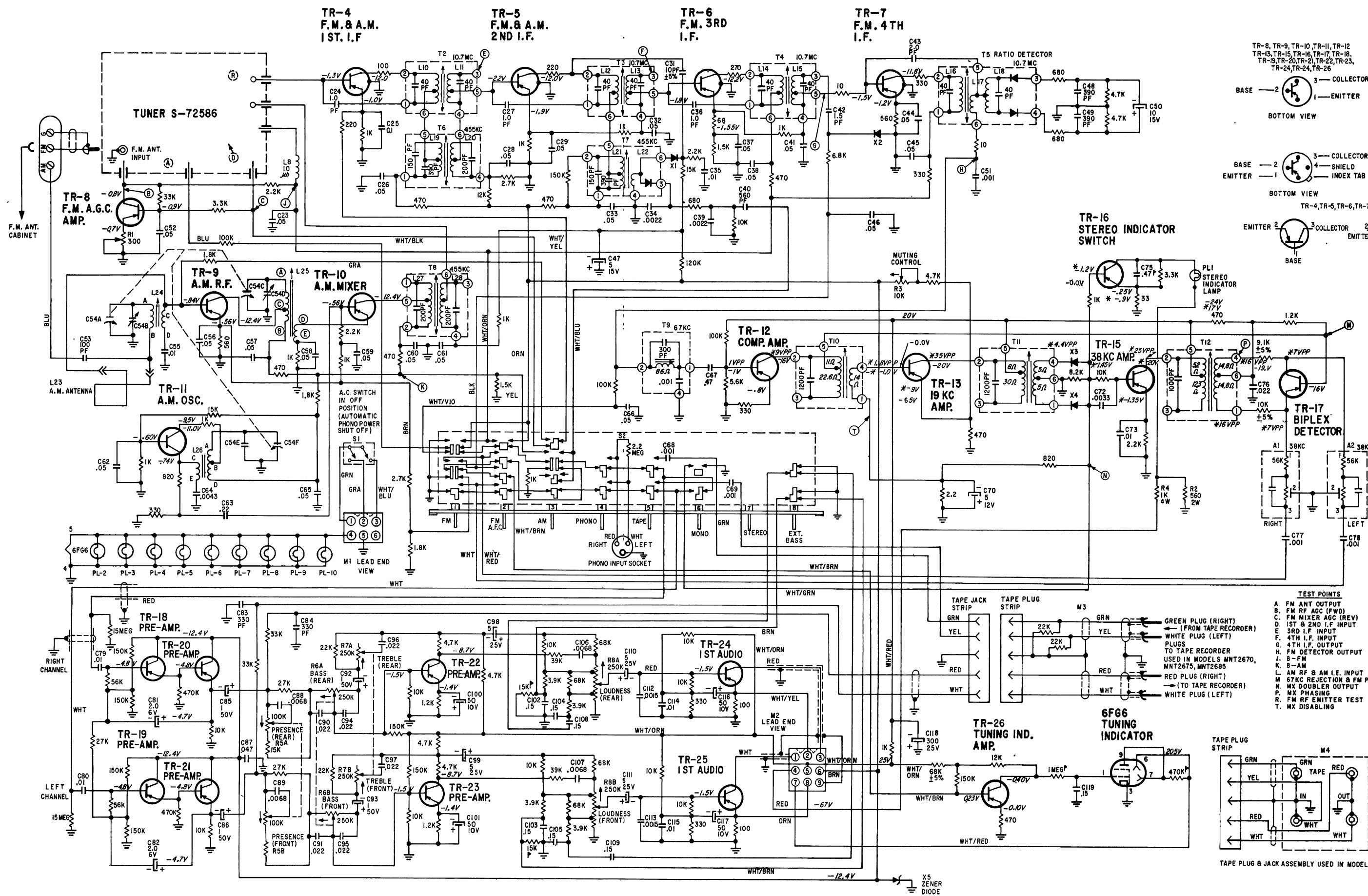
ITEM NO.	PART NO.	DESCRIPTION
C1	22-3358	34 PF DISC 5%
C2	22-3358	34 PF DISC 5%
C3	22-3358	34 PF DISC 5%
C4	22-3604	5.0 PF DISC 5%
C5	22-3604	5.0 PF DISC 5%
C6	22-3358	34 PF DISC 5%
C7	22-3358	34 PF DISC 5%
C8	22-3358	34 PF DISC 5%
C9	22-3358	34 PF DISC 5%
C10	22-3358	34 PF DISC 5%
C11	22-3358	34 PF DISC 5%
C12	22-3358	34 PF DISC 5%
C13	22-3358	34 PF DISC 5%
C14	22-3358	34 PF DISC 5%
C15	22-3358	34 PF DISC 5%
C16	22-3358	34 PF DISC 5%
C17	22-3358	34 PF DISC 5%
C18	22-3358	34 PF DISC 5%
C19	22-3358	34 PF DISC 5%
C20	22-3358	34 PF DISC 5%
C21	22-3358	34 PF DISC 5%
C22	22-3358	34 PF DISC 5%
L1	5-6287	FM ANTENNA COIL ASSEMBLY
L2	5-6287	FM IF INPUT COIL ASSEMBLY
L3	5-6287	FM DET COIL ASSEMBLY
L4	5-6287	FM OSCILLATOR COIL ASSEMBLY
L5	5-6287	FM IF INPUT COIL ASSEMBLY
L6	5-6287	FM IF INPUT COIL ASSEMBLY
L7	5-6287	FM IF INPUT COIL ASSEMBLY
L8	5-6287	FM IF INPUT COIL ASSEMBLY
L9	5-6287	FM IF INPUT COIL ASSEMBLY
L10	5-6287	FM IF INPUT COIL ASSEMBLY
L11	5-6287	FM IF INPUT COIL ASSEMBLY
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L16	5-6287	FM IF INPUT COIL ASSEMBLY
L17	5-6287	FM IF INPUT COIL ASSEMBLY
L18	5-6287	FM IF INPUT COIL ASSEMBLY
L19	5-6287	FM IF INPUT COIL ASSEMBLY
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L92	5-6287	FM IF INPUT COIL ASSEMBLY
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L94	5-6287	FM IF INPUT COIL ASSEMBLY
L95	5-6287	FM IF INPUT COIL ASSEMBLY
L96	5-6287	FM IF INPUT COIL ASSEMBLY
L97	5-6287	FM IF INPUT COIL ASSEMBLY
L98	5-6287	FM IF INPUT COIL ASSEMBLY
L99	5-6287	FM IF INPUT COIL ASSEMBLY
L100	5-6287	FM IF INPUT COIL ASSEMBLY



- NOTES:
1. ALL RESISTORS ± 10% TOLERANCE, 1/4 WATT, CARBON UNLESS OTHERWISE SPECIFIED.
  2. RESISTANCE VALUES IN OHMS, CAPACITANCES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
  3. ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.
  4. D.C. VOLTAGES SHOWN ARE MEASURED WITH NO SIGNAL, USING A VACUUM TUBE VOLT METER.
  5. NO SIGNAL DRAIN IS 5 M.A.

↑ DENOTES CHASSIS GROUND





- TRANSISTOR DESCRIPTION**
- TR-4 F.M. & A.M. 1ST I.F. (121-414)
  - TR-5 F.M. & A.M. 2ND I.F. (121-415)
  - TR-6 F.M. 3RD I.F. (121-415)
  - TR-7 F.M. 4TH I.F. (121-415)
  - TR-8 A.G.C. AMP. (121-273)
  - TR-9 A.M. R.F. (121-397)
  - TR-10 A.M. MIXER (121-397)
  - TR-11 A.M. OSC. (121-397)
  - TR-12 COMP. AMP. (121-348)
  - TR-13 19 KC AMP. (121-348)
  - TR-15 38 KC AMP. (121-348)
  - TR-16 STEREO INDICATOR SWITCH (121-348)
  - TR-17 BIPHASE DETECTOR (121-347)
  - TR-18 PRE-AMP. (121-273)
  - TR-19 PRE-AMP. (121-273)
  - TR-20 PRE-AMP. (121-273)
  - TR-21 PRE-AMP. (121-273)
  - TR-22 PRE-AMP. (121-274)
  - TR-23 PRE-AMP. (121-274)
  - TR-24 1ST AUDIO (121-272)
  - TR-25 1ST AUDIO (121-272)
  - TR-26 TUNING IND. AMP. (121-396)

**NOTES:**

ALL RESISTORS ARE 1/2 W CARBON, ±10% TOLERANCE UNLESS OTHERWISE SPECIFIED.

ALL CAPACITORS ARE IN MFD UNLESS OTHERWISE SPEC. FOR CAPACITY TOLERANCES SEE LEGEND.

† INDICATES 20% TOLERANCE MAY BE USED.

**TUNING RANGES:** 540-1620 KC STD. AM  
88-108 MC FM

**AMP MOD I.F. FREQ:** 455 KC

**FREQ MOD I.F. FREQ:** 10.7 MC

ALL VOLTAGES MEASURED FROM COMMON RETURN TO POINTS INDICATED WITH A VACUUM TUBE VOLTMETER.

ALL VOLTAGES ARE DC UNLESS OTHERWISE SPECIFIED.

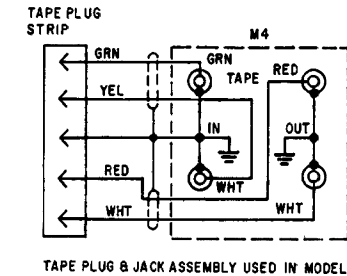
**BANDSWITCH (S2) POSITIONS ARE AS FOLLOWS:**

- 1ST POSITION F.M.
- 2ND POSITION F.M. - A.F.C.
- 3RD POSITION A.M.
- 4TH POSITION PHONO
- 5TH POSITION TAPE
- 6TH POSITION MONO
- 7TH POSITION STEREO
- 8TH POSITION EXT. BASE (VIEWED FROM FRONT OF CHASSIS)

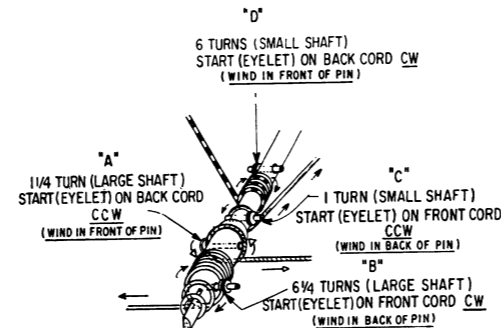
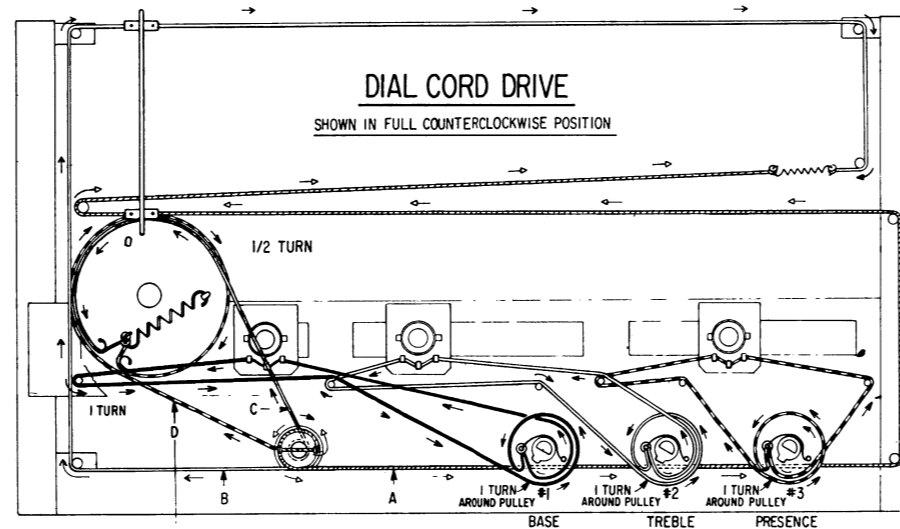
**DENOTES CHASSIS**

\* DENOTES VALUES PRESENT ONLY WITH STEREO SIGNAL. ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION.

\*\* ALL CABLE PLUGS & SOCKETS AS SHOWN ARE LEAD END (REAR) VIEW, FOR AUDIO & POWER SUPPLY SCHEMATIC, REFER TO 123-3127 ALIGNMENT POINTS - CIRCLED LETTERS INDICATE ALIGNMENT AND TEST POINTS.



ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
C23	322-20	.05 MFD DISC	C106	22-3891	.0068 MFD ± 10%
C24	322-47	1.0 PF GIMMICK	C107	22-3891	.0068 MFD ± 10%
C25	22-365	0.1 MFD DISC	C108	322-84	.15 MFD ± 10%
C26	322-20	.05 MFD DISC	C109	322-84	.15 MFD ± 10%
C27	322-47	1.0 PF GIMMICK	C110	322-30	5 MFD ELECTROLYTIC
C28	322-20	.05 MFD DISC	C111	322-30	5 MFD ELECTROLYTIC
C29	322-20	.05 MFD DISC	C112	322-80	.0015 MFD DISC ± 10%
C30			C113	322-80	.0015 MFD DISC ± 10%
C31	22-367	10 PF DISC	C114	322-3	.01 MFD DISC
C32	322-20	.05 MFD DISC	C115	322-3	.01 MFD DISC
C33	322-20	.05 MFD DISC	C116	322-21	50 MFD ELECTROLYTIC
C34	322-82	.0022 DISC	C117	322-21	50 MFD ELECTROLYTIC
C35	322-3	.01 MFD DISC	C118	22-5168	300 MFD ELECTROLYTIC
C36	322-47	1.0 PF GIMMICK	C119	322-84	.15 MFD DISC ± 10%
C37	322-20	.05 MFD DISC	R1	63-6376	POTENTIOMETER
C38	322-20	.05 MFD DISC	R2	63-5659	560 OHM 10%
C39	322-82	.0022 DISC	R3	63-5192	POTENTIOMETER (MUTING)
C40	322-2	560 PF DISC ± 10%	R4	63-5205	1 K OHMS ± 10%
C41	322-20	.05 MFD DISC	R5A	63-5213	PRESENCE CONTROL (REAR)
C42	322-44	1.5 PF GIMMICK	R5B		PRESENCE CONTROL (FRONT)
C43	22-243	2.0 PF GIMMICK	R6A		BASE CONTROL (REAR)
C44	322-20	.05 MFD DISC	R6B	63-5147	BASE CONTROL (FRONT)
C45	322-20	.05 MFD DISC	R7A	63-5372	TREBLE CONTROL (REAR)
C46	322-20	.05 MFD DISC	R7B		TREBLE CONTROL (FRONT)
C47	322-22	5 MFD ELECTROLYTIC	R8A	63-6346	LOUDNESS CONTROL (REAR)
C48	322-32	390 PF DISC	R8B		LOUDNESS CONTROL (FRONT)
C49	322-32	390 PF DISC			
C50	322-10	10 MFD ELECTROLYTIC	L8	20-2033	PEAKING COIL
C51	322-9	.001 MFD DISC	L9		
C52	322-20	.05 MFD DISC	L10	INT2	2ND I.F. TRANS. (FM) PRI.
C53	322-90	100 PF DISC	L11	INT2	2ND I.F. TRANS. (FM) SEC.
C54A		ANTENNA TUNING	L12	INT3	3RD I.F. TRANS. (AM) PRI.
C54B		ANTENNA TRIMMER	L13	INT3	3RD I.F. TRANS. (AM) SEC.
C54C	22-386	DETECTOR TUNING	L14	INT4	4TH I.F. TRANS. (FM) PRI.
C54D		DETECTOR TRIMMER	L15	INT4	4TH I.F. TRANS. (FM) SEC.
C54E		OSCILLATOR TUNING	L16	INT5	RATIO DET. TRANS. PRI.
C54F		OSCILLATOR TRIMMER	L17	INT5	RATIO DET. TRANS. SEC.
C55	22-5116	.01 MFD DISC ± 10%	L18	INT5	RATIO DETECTOR TRANS.
C56	322-20	.05 MFD DISC	L19	INT6	2ND I.F. TRANS. (AM) PRI.
C57	322-20	.05 MFD DISC	L20	INT6	2ND I.F. TRANS. (AM) SEC.
C58	322-20	.05 MFD DISC	L21	INT7	3RD I.F. TRANS. (FM) PRI.
C59	322-20	.05 MFD DISC	L22	INT7	3RD I.F. TRANS. (FM) SEC.
C60	322-20	.05 MFD DISC	L23	S-64803	AM ANTENNA (CABINET)
C61	322-20	.05 MFD DISC	L24	S-72060	ANTENNA COIL ASSEMBLY (AM)
C62	322-20	.05 MFD DISC	L25	S-69165	DETECTOR COIL ASSEMBLY (AM)
C63	22-352	.22 MFD DISC	L26	S-72828	OSCILLATOR COIL ASSEMBLY (AM)
C64	22-466	4300 PF DUREZ	L27	INT8	1ST AM I.F. TRANS. PRI.
C65	322-20	.05 MFD DISC	L28	INT8	1ST AM I.F. TRANS. SEC.
C66	322-20	.05 MFD DISC			
C67	22-344	.47 MFD	T2	95-2328	2ND I.F. TRANSFORMER (FM)
C68	322-40	.001 MFD DISC	T3	95-2387	3RD I.F. TRANSFORMER (FM)
C69	322-40	.001 MFD DISC	T4	95-2328	4TH I.F. TRANSFORMER (FM)
C70	322-22	5 MFD ELECTROLYTIC	T5	95-2324	RATIO DETECTOR TRANS.
C71			T6	95-2326	2ND I.F. TRANSFORMER (AM)
C72	322-27	.0033 MFD DISC	T7	95-2327	3RD I.F. TRANSFORMER (AM)
C73	322-3	.01 MFD DISC	T8	95-2325	1ST I.F. TRANSFORMER (AM)
C74			T9	95-2316	TRAP COIL 67KC
C75	22-344	.47 MFD	T10	95-2315	19 KC INPUT TRANSFORMER
C76	322-10	.022 MFD	T11	95-2313	19 KC DOUBLER TRANSFORMER
C77	322-40	.001 MFD DISC	T12	95-2314	38KC DETECTOR TRANSFORMER
C78	322-40	.001 MFD DISC			
C79	322-3	.01 MFD DISC	A1	105-93	38 KC FILTER
C80	322-3	.01 MFD DISC	A2	105-93	38 KC FILTER
C81	322-26	2 MFD ELECTROLYTIC	M1	S-69172	HOUSING AND CABLE ASSEMBLY (6 CONTACT)
C82	322-26	2 MFD ELECTROLYTIC	M2	S-69173	HOUSING AND CABLE ASSEMBLY (9 CONTACT)
C83	22-325	330 PF DISC ± 10%	M3	S-71064	TAPE CONNECTOR AND PLUG ASSEMBLY
C84	22-325	330 PF DISC ± 10%			
C85	322-72	1 MFD ELECTROLYTIC	PL1	100-362	STEREO INDICATOR BULB
C86	322-72	1 MFD ELECTROLYTIC	PL2	100-249	PILOT LIGHT #1847
C87	22-518	.047 MFD ± 10%	PL3	100-249	PILOT LIGHT #1847
C88	22-369	.0068 MFD ± 10%	PL4	100-249	PILOT LIGHT #1847
C89	22-369	.0068 MFD ± 10%	PL5	100-249	PILOT LIGHT #1847
C90	322-10	.022 MFD ± 10%	PL6	100-249	PILOT LIGHT #1847
C91	322-10	.022 MFD ± 10%	PL7	100-249	PILOT LIGHT #1847
C92	322-72	1 MFD ELECTROLYTIC	PL8	100-249	PILOT LIGHT #1847
C93	322-72	1 MFD ELECTROLYTIC	PL9	100-249	PILOT LIGHT #1847
C94	322-10	.022 MFD ± 10%	PL10	100-249	PILOT LIGHT #1847
C95	322-10	.022 MFD ± 10%			
C96	322-10	.022 MFD ± 10%	S1	85-864	AC SWITCH
C97	322-10	.022 MFD ± 10%	S2	85-863	PUSH BUTTON BANDSWITCH
C98	322-30	5 MFD ELECTROLYTIC	X1	103-23	DIODE
C99	322-30	5 MFD ELECTROLYTIC	X2	103-19	DIODE
C100	322-21	50 MFD ELECTROLYTIC	X3	103-23	DIODE
C101	322-84	.15 MFD ± 10%	X4	103-23	DIODE
C102	322-84	.15 MFD ± 10%	X5	104-96	DIODE (ZENER)
C103	322-84	.15 MFD ± 10%			
C104	322-84	.15 MFD ± 10%			
C105	322-84	.15 MFD ± 10%			

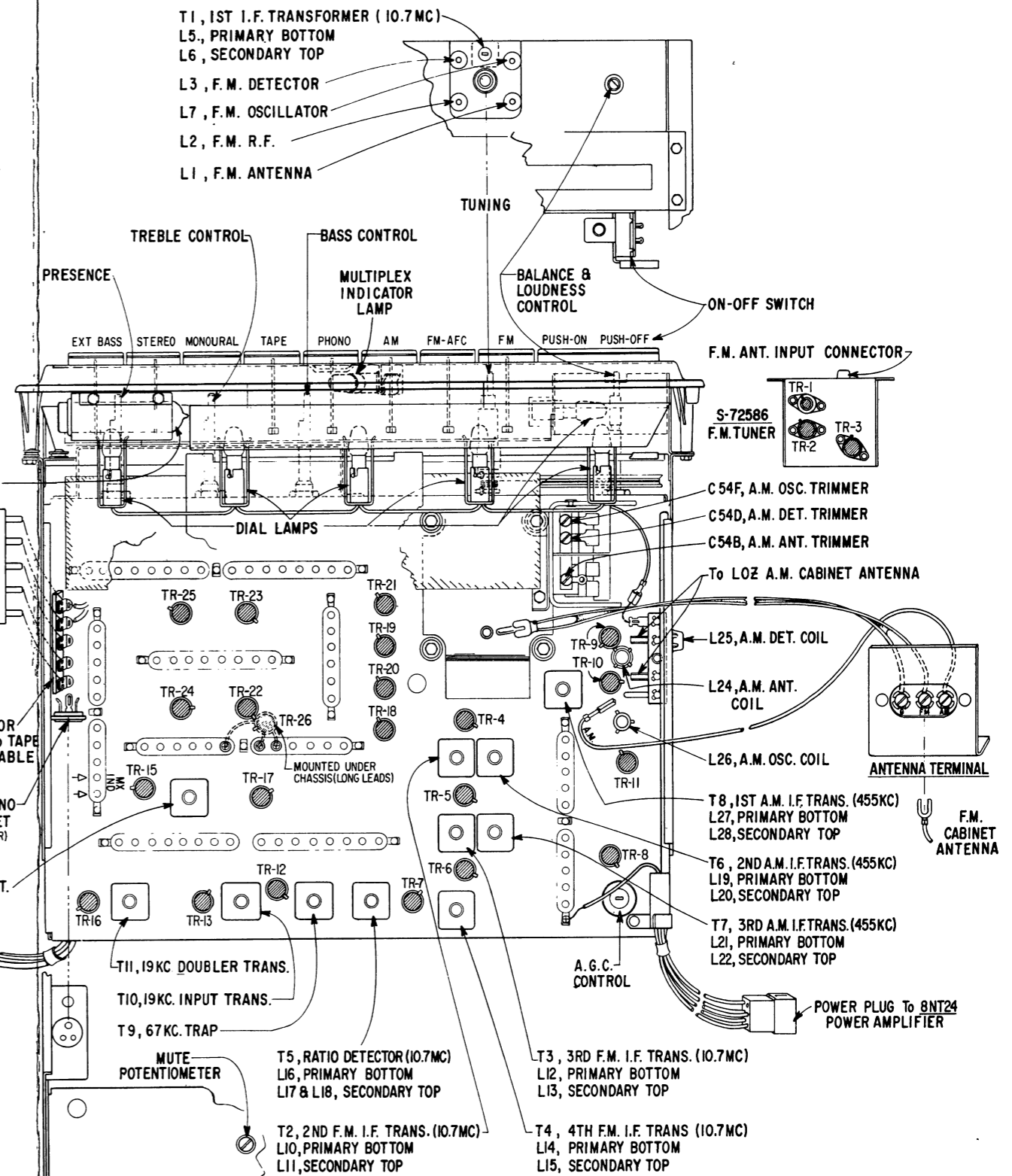
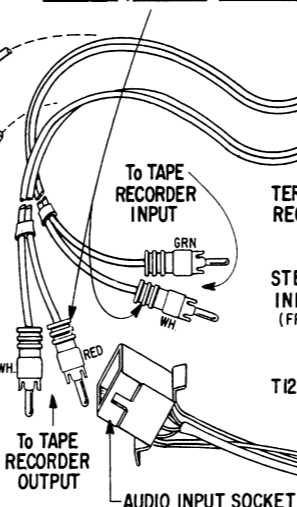


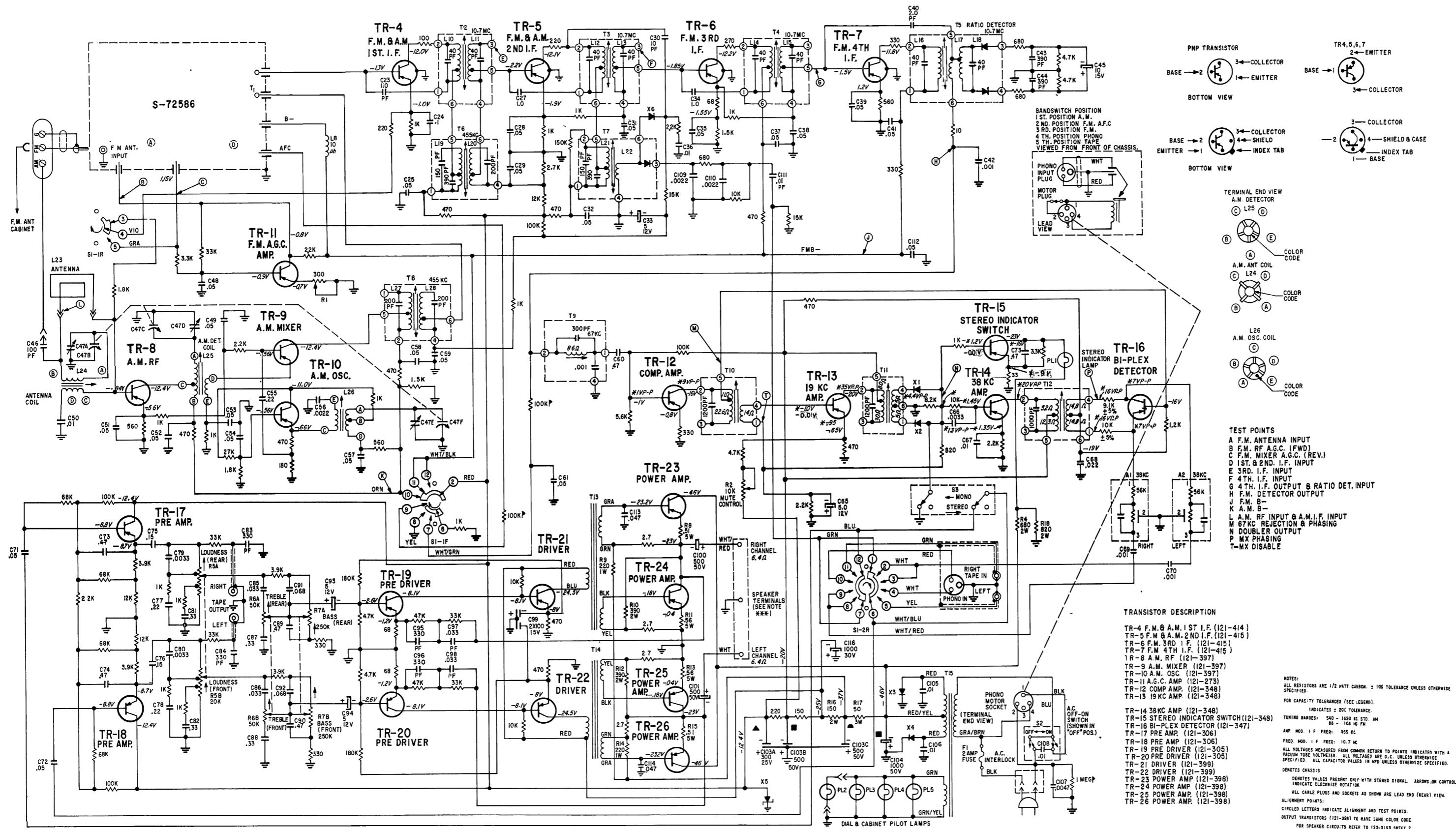
No	PART NO	DESCRIPTION
TR-1	121-383	F.M. R.F.
TR-2	121-428	F.M. MIXER
TR-3	121-432	F.M. OSC.
TR-4	121-414	F.M. AM 1st I.F.
TR-5	121-415	F.M. AM 2nd I.F.
TR-6	121-415	F.M. 3rd I.F.
TR-7	121-415	F.M. 4th I.F.
TR-8	121-273	A.G.C. AMP
TR-9	121-397	A.M. R.F.
TR-10	121-397	A.M. MIXER
TR-11	121-397	A.M. OSC.
TR-12	121-348	COMPOSITE AMP
TR-13	121-348	19KC AMP.
TR-14	121-348	38KC AMP.
TR-15	121-348	38KC AMP.
TR-16	121-348	STEREO IND. SWITCH
TR-17	121-347	BI-PLEX DET.
TR-18	121-273	PRE AMP.
TR-19	121-273	PRE AMP.
TR-20	121-273	PRE AMP.
TR-21	121-273	PRE AMP.
TR-22	121-274	PRE AMP.
TR-23	121-274	PRE AMP.
TR-24	121-272	1st AUDIO
TR-25	121-272	1st AUDIO
TR-26	121-396	TUNING IND. AMP

TAPE JACK & BRACKET ASSEMBLY USED ON  
MNT2670  
MNT2675  
MNT2685



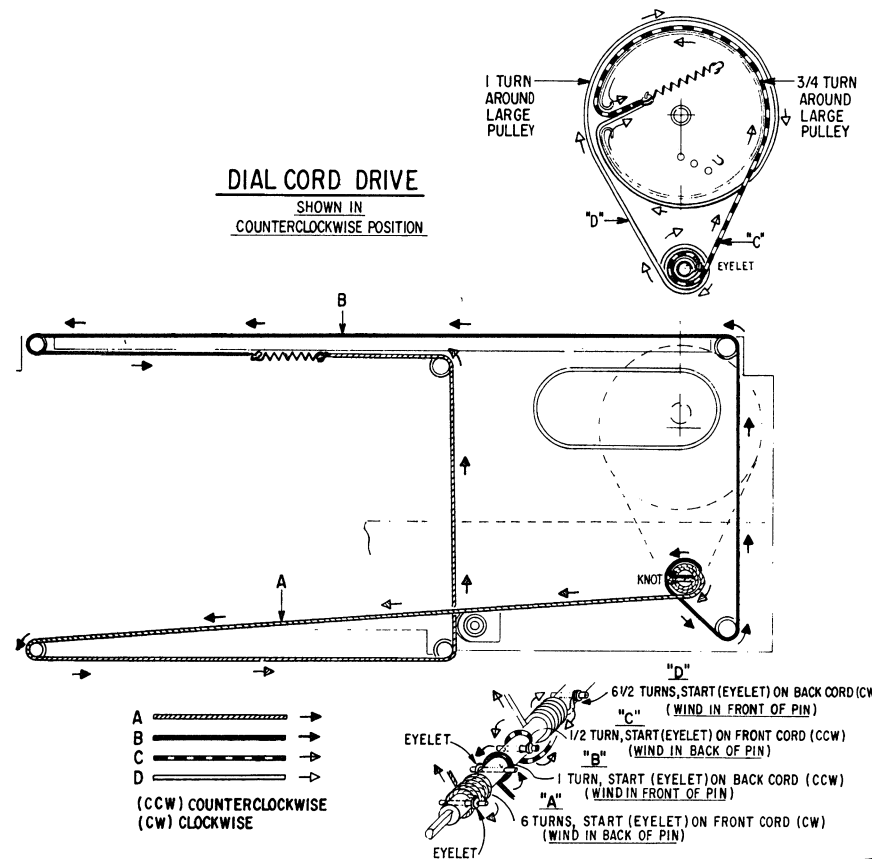
PLUG & TAPE RECORDER ASSEMBLY USED ON  
MNT2670, MNT2675, MNT2685





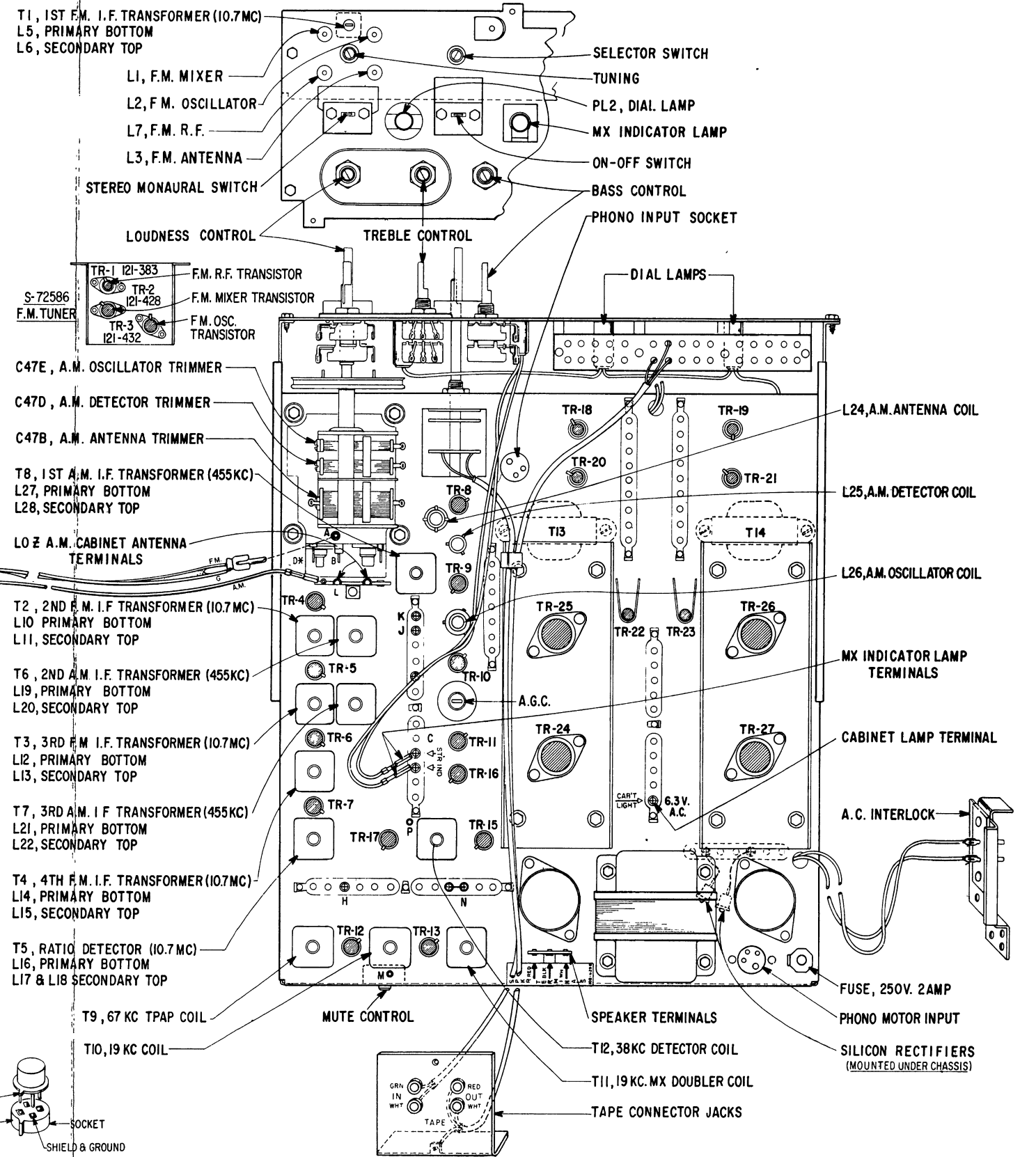
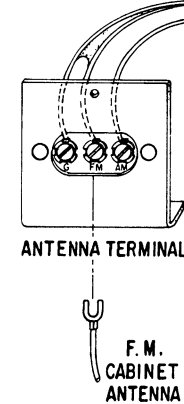
26NT20 SCHEMATIC

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
C23	322-47	1 PF GIMMICK ± 10%	C107	22-5187	.0047 MFD DISC
C24	22-3652	.1 MFD DISC	C108	22-4601	.01 MFD DISC ± 10%
C25	322-20	.5 MFD DISC	C109	322-82	.0022 MFD DISC ± 10%
C26	322-20	.5 MFD DISC	C110	322-82	.0022 MFD DISC ± 10%
C27	322-47	1 PF GIMMICK ± 10%	C111	322-87	.01 MFD DISC ± 10%
C28	322-20	.05 MFD DISC	C112	322-20	.05 MFD DISC
C29	322-20	.05 MFD DISC	C113	22-3678	.047 MFD DISC ± 10%
C30	22-3675	10 PF DISC ± 5%	C114	22-3678	.047 MFD DISC ± 10%
C31	322-20	.05 MFD DISC	C115	22-3678	.047 MFD DISC ± 10%
C32	322-20	.05 MFD DISC	C116	22-5167	1000 MFD ELECTROLYTIC
C33	322-30	5 MFD ELECTROLYTIC	R1	63-6376	POTENTIOMETER
C34	322-47	1 PF GIMMICK ± 10%	R2	63-5192	POTENTIOMETER (MUTING)
C35	322-20	.05 MFD DISC	R3		
C36	322-15	.01 MFD DISC	R4	63-5663	680 OHMS ± 10%
C37	322-20	.05 MFD DISC	R5A	63-6361	LOUDNESS CONTROL (REAR)
C38	322-20	.05 MFD DISC	R5B	63-6361	LOUDNESS CONTROL (FRONT)
C39	322-20	.05 MFD DISC	R6A	63-6363	TREBLE CONTROL (REAR)
C40	22-2434	2 PF GIMMICK ± 10%	R6B	63-6363	TREBLE CONTROL (FRONT)
C41	322-20	.05 MFD DISC	R7A	63-6362	BASS CONTROL (REAR)
C42	322-9	.001 MFD DISC	R7B	63-6362	BASS CONTROL (FRONT)
C43	322-32	390 PF DISC ± 10%	R8	63-5305	.51 OHMS ± 10%
C44	322-32	390 PF DISC ± 10%	R9	63-6042	220 OHMS ± 10%
C45	322-105	10 MFD ELECTROLYTIC	R10	63-5652	390 OHMS ± 10%
C46	322-90	100 PF DISC 10%	R11	63-6378	.56 OHMS ± 10%
C47A		ANTENNA TUNING	R12	63-5652	390 OHMS ± 10%
C47B		ANTENNA TRIMMER	R13	63-6378	.56 OHMS ± 10%
C47C		DETECTOR TUNING	R14	63-6042	220 OHMS ± 10%
C47D	22-4618	DETECTOR TRIMMER	R15	63-5305	.51 OHMS ± 10%
C47E		OSCILLATOR TUNING	R16	63-5635	150 OHMS ± 10%
C47F		OSCILLATOR TRIMMER	R17	63-6377	50 OHMS ± 10%
C48	322-20	.05 MFD DISC	R18	63-5666	820 OHMS ± 10%
C49	322-20	.05 MFD DISC	L8	20-2033	R.F. CHOKE COIL
C50	22-5116	.01 MFD DISC	L9		
C51	322-20	.05 MFD DISC	L10	INT2	2ND I.D. TRANSFORMER (FM) PRI.
C52	322-20	.05 MFD DISC	L11	INT2	2ND I.F. TRANSFORMER (FM) SEC.
C53	322-20	.05 MFD DISC	L12	INT3	3RD I.F. TRANSFORMER (AM) PRI.
C54	322-20	.05 MFD DISC	L13	INT3	3RD I.F. TRANSFORMER (AM) SEC.
C55	22-3527	.22 MFD DISC	L14	INT4	4TH I.F. TRANSFORMER (FM) PRI.
C56	22-3180	.0022 PF DUREZ	L15	INT4	4TH I.F. TRANSFORMER (FM) SEC.
C57	322-20	.05 MFD DISC	L16	INT5	RATIO DETECTOR TRANSFORMER PRI.
C58	322-20	.05 MFD DISC	L17	INT5	RATIO DETECTOR TRANSFORMER SEC.
C59	322-20	.05 MFD DISC	L18	INT5	RATIO DETECTOR TRANSFORMER 3RD.
C60	322-88	.47 MFD MYLAR ± 10%	L19	INT6	2ND I.F. TRANSFORMER (AM) PRI.
C61	322-20	.05 MFD DISC	L20	INT6	2ND I.F. TRANSFORMER (AM) SEC.
C62			L21	INT7	3RD I.F. TRANSFORMER (FM) PRI.
C63			L22	INT7	3RD I.F. TRANSFORMER (FM) SEC.
C64	322-88	.47 MFD 10%	L23	5-48803	A.M. ANTENNA (CABINET)
C65	322-30	5 MFD ELECTROLYTIC	L24	5-72060	ANTENNA COIL ASSEMBLY (AM)
C66	322-27	.0033 MFD DISC ± 10%	L25	5-69165	DETECTOR COIL ASSEMBLY (AM)
C67	322-3	.01 MFD DISC	L26	5-69164	OSCILLATOR COIL ASSEMBLY (AM)
C68	322-105	.022 MFD MYLAR ± 10%	L27	INT8	1ST I.F. TRANSFORMER (AM) PRI.
C69	322-40	.001 MFD DISC	L28	INT8	1ST AM FM TRANSFORMER (AM) SEC.
C70	322-40	.001 MFD DISC	A1	105-93	38 KC FILTER
C71	322-20	.05 MFD DISC	A2	105-93	38 KC FILTER
C72	322-20	.05 MFD DISC	F1	136-40	2 AMP FUSE
C73	22-3588	.47 MFD DISC	PL1	100-362	STEREO INDICATOR LIGHT
C74	22-3588	.47 MFD DISC	PL2	100-249	STEREO LIGHT #1847
C75	322-84	.15 MFD MYLAR ± 10%	PL3	100-249	PILOT LIGHT #1847
C76	322-84	.15 MFD MYLAR ± 10%	PL4	100-249	PILOT LIGHT #1847
C77	322-86	.22 MFD MYLAR ± 10%	PL5	100-249	PILOT LIGHT #1847
C78	322-86	.22 MFD MYLAR ± 10%	S1	85-890	FIVE POSITION BANDSWITCH
C79	322-27	.0033 MFD DISC ± 10%	S2	85-891	A.C. SWITCH
C80	322-27	.0033 MFD DISC ± 10%	S3	85-892	STEREO MONAURAL SWITCH
C81	322-85	.33 MFD DISC MYLAR ± 10%	T2	95-2328	2ND I.F. TRANSFORMER (FM)
C82	322-85	.33 MFD DISC MYLAR ± 10%	T3	95-2387	3RD I.F. TRANSFORMER (FM)
C83	22-3255	330 PF DISC ± 10%	T4	95-2328	4TH I.F. TRANSFORMER (FM)
C84	22-3255	330 PF DISC ± 10%	T5	95-2324	RATIO DETECTOR TRANSFORMER
C85	22-4110	.0033 MFD MYLAR ± 10%	T6	95-2326	2ND I.F. TRANSFORMER (AM)
C86	22-4110	.0033 MFD MYLAR ± 10%	T7	95-2327	3RD I.F. TRANSFORMER (AM)
C87	322-85	.33 MFD MYLAR ± 10%	T8	95-2325	1ST A.M.I.F. TRANSFORMER
C88	322-85	.33 MFD MYLAR ± 10%	T9	95-2316	TRAP COIL 67KC
C89	322-88	.47 MFD MYLAR ± 10%	T10	95-2315	19KC MULTIPLEX TRANSFORMER
C90	322-88	.47 MFD MYLAR ± 10%	T11	95-2313	19KC DOUBLER TRANSFORMER
C91	22-3630	.068 MFD MYLAR ± 10%	T12	95-2314	38KC DETECTOR TRANSFORMER
C92	22-3630	.068 MFD MYLAR ± 10%	T13	95-2330	DRIVER TRANSFORMER
C93	322-30	5 MFD ELECTROLYTIC	T14	95-2330	DRIVER TRANSFORMER
C94	322-30	5 MFD ELECTROLYTIC	T15	95-2335	POWER TRANSFORMER
C95	22-3255	330 PF DISC ± 10%	X1	103-23	DIODE
C96	22-3255	330 PF DISC ± 10%	X2	103-23	DIODE
C97	22-4110	.033 MFD MYLAR ± 10%	X3	212-61	RECTIFIER
C98	22-4110	.033 MFD MYLAR ± 10%	X4	212-61	RECTIFIER
C99	22-4628	2 x 100 MFD ELECTROLYTIC	X5	103-85	DIODE (ZENER)
C100	22-5011	500 ELECTROLYTIC	X6	103-23	DIODE
C101	22-5011	500 ELECTROLYTIC			
C103A	22-5162	500 ELECTROLYTIC			
C103B		500 ELECTROLYTIC			
C103C		500 ELECTROLYTIC			
C104	322-113	1000 MFD ELECTROLYTIC			
C105	322-15	.01 MFD DISC			
C106	322-15	.01 MFD DISC			



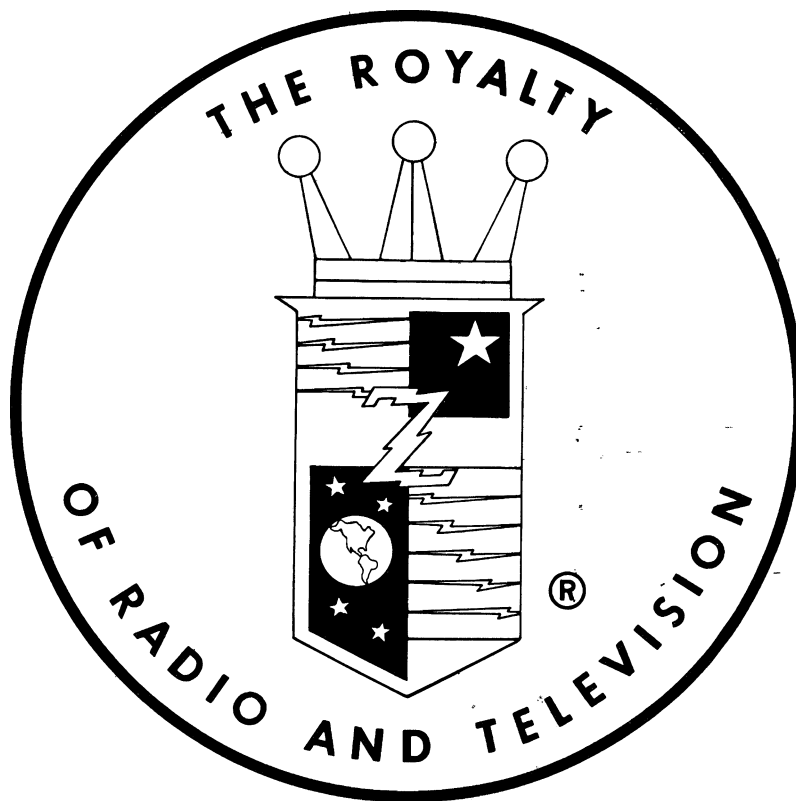
TRANSISTORS			
N.O.	PART N.	DESCRIPTION	REQ'D
TR-4	121-414	A.M. FM. I.F.	4
TR-5	121-415	A.M. FM. I.F.	
TR-6	121-415	— F.M. I.F.	
TR-7	121-415	— F.M. I.F.	
TR-8	121-397	A.M. R.F.	3
TR-9	121-397	A.M. MIXER	
TR-10	121-397	A.M. OSCILLATOR	1
TR-11	121-273	A.G.C. AMP	
TR-12	121-348	COMPOSITE AMP	5
TR-13	121-348	19KC AMP	
TR-15	121-348	38KC AMP	1
TR-16	121-348	STEREO IND. CONTROL	
TR-17	121-347	BI-PLEX DET.	2
TR-18	121-306	PRE AMP	
TR-19	121-306	PRE AMP	2
TR-20	121-305	PRE-DRIVER	
TR-21	121-305	PRE-DRIVER	4
TR-22	121-399	DRIVER	
TR-23	121-399	DRIVER	1
TR-24	121-398	POWER AMP	
TR-25	121-398	POWER AMP	4
TR-26	121-398	POWER AMP	
TR-27	121-398	POWER AMP	

TEST POINTS	
A	F.M. ANTENNA INPUT
B	F.M.-R.F. AGC (FWD)
C	F.M. MIXER AGC (REV)
D	1st & 2nd I.F. INPUT
H	F.M. DET. OUTPUT
J	F.M. B-
K	A.M. B-
L	A.M. R.F. INPUT + and -
M	67KC REJECTION and PHASING
N	DOUBLER OUTPUT
P	PHASING
(1st & 2nd I.F. INPUT)	
* MIXER EMITTER TEST POINT BROUGHT OUT OF SOCKET EYELET	



26NT20 CHASSIS LAYOUT

# NOTES



## **ZENITH RADIO CORPORATION**

1900 N. Austin Avenue  
CHICAGO, ILLINOIS 60639